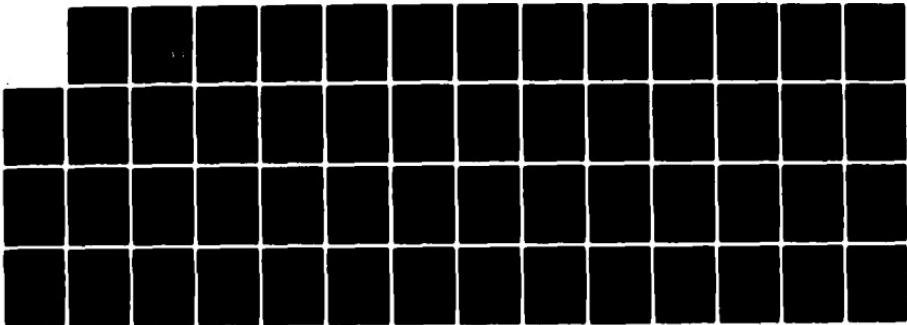


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VERSION 197 V-001(U) SOFTECH INC WALTHAM MA 11 APR 83
MDA903-79-C-0687

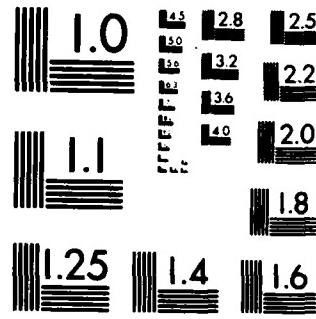
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Ada Compiler Validation Summary Report:

NYU Ada/ED, Version 19.7

V-001

April 11, 1983

Prepared By
SoftTech, Inc.
460 Totten Pond Rd.
Waltham, MA 02154

under

Contract MDA-903-79-C-0687

for

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18. ABSTRACT (Continue on reverse side if necessary and identify by block number). The New York University Ada translator (NYU Ada/Ed) version 19.7 (March 21, 1983), was tested with version 1.1 (March 4, 1983) of the ACVC validation tests. Version 1.1 of the test suite contained 1,633 tests, of which 1,325 were applicable to NYU Ada/Ed. Of the applicable tests, 14 were withdrawn, due to errors in the tests. NYU Ada/Ed passed all of the remaining 1,311 applicable correct tests.		

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Validation Summary Report for NYU Ada/ED
ABSTRACT

April 11, 1983

ABSTRACT

The New York University Ada translator (NYU Ada/ED), version 19.7 (March 21, 1983), was tested with version 1.1 (March 4, 1983) of the ACVC validation tests. Version 1.1 of the test suite contained 1633 tests, of which 1325 were applicable to NYU Ada/ED. Of the applicable tests, 14 were withdrawn due to errors in the tests. NYU Ada/ED passed all of the remaining 1311 applicable correct tests.

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CHAPTER 1

Introduction

1.1 Purpose of the Validation Summary Report

This report describes the results of the validation effort for the following Ada translator:

Host Machine:	DEC VAX 11/780 at New York University
Operating System:	VMS 3.1
Target Machine:	DEC VAX 11/780
Operating System:	VMS 3.1
Language Version:	ANSI/MIL-STD-1815A Ada
Translator Name:	NYU Ada/ED
Translator Version:	19.7 (March 21, 1983)
Validator Version:	1.1 (March 4, 1983)

Testing of this translator was conducted by SofTech, Inc. under the supervision of the Ada Validation Office, at the direction of the Ada Joint Program Office. Testing was completed March 31, 1983, in accordance with policies and procedures described in the AVO Policies and Procedures.

The purpose of this report is to document the results of the testing performed on the translator, and in particular, to:

- identify any language constructs supported by the translator that do not conform to the Ada standard.
- identify any unsupported language constructs required by the Ada standard.
- describe implementation-dependent behavior allowed by the standard.

1.2 Use of the Validation Summary Report

The Ada Validation Office may make full and free public disclosure of this report in accordance with the "Freedom of Information Act" (5 U.S.C. #552). The results of the validation are only for the purpose of satisfying United States Government requirements, and apply only to the computers, operating systems, and compiler version identified in this report.

~~The Ada Compiler Validation Capability is used to determine insofar as is~~

practical, the degree to which the subject compiler conforms to the Ada standard. Thus, this report is necessarily discretionary and judgmental. The United States Government does not represent or warrant that the statements, or any one of them, set forth in this report are accurate or complete, nor that the subject compiler has no other nonconformances to the Ada standard. This report is not meant to be used for the purpose of publicizing the findings summarized therein.

Questions regarding this report or the validation tests should be sent to the Ada Validation Office at:

Ada Joint Program Office
Room 3D 139 (400 Army Navy Drive)
Pentagon
Washington, D.C. 20301

1.3 References

Reference Manual for the Ada Programming Language, ANSI/MIL-STD-1815A, January 1983.

Ada Validation Organization: Policies and Procedures, Mitre Corporation, June 1982, PB 83-110601.

Ada Compiler Validation Implementers' Guide, SofTech, Inc., October 1980.

The Ada Compiler Validation Capability, Computer, Vol. 14, No. 6, June 1981.

Using the ACVC Tests, SofTech, Inc., November 1981.

Ada Compiler Validation Plans and Procedures, SofTech, Inc., November 1981.

1.4 Definitions of Terms

Class A tests are passed if no errors are detected at compile time. Although these tests are constructed to be executable, no checks can be performed at run-time to see if the test objective has been met; this is what distinguishes Class A from Class C tests. For example, a Class A test might check that keywords of other languages (other than those already reserved in Ada) are not treated as reserved words by an Ada implementation.

Class B tests are illegal programs. They are passed if all the errors they contain are detected at compile-time (or link-time) and no legal statements are considered illegal by the compiler.

Class L tests consist of illegal programs whose errors cannot be detected until link time. They are passed if errors are detected prior to beginning execution of the main program.

Class C tests consist of executable self-checking programs. They are passed if they complete execution and do not report failure.

Class D tests are capacity tests. Since there are no firm criteria for the number of identifiers permitted in a compilation, number of units in a library, etc., a compiler may refuse to compile a class D test. However, if such a test is successfully compiled, it should execute without reporting a failure.

Class E tests provide information about an implementation's interpretation of the Standard. Each test has its own pass/fail criterion. There were no class E tests in Version 1.1 of the test suite.

CUSTOMER:	The agency requesting the validation (New York University).
HOST:	The computer on which the compiler executes (DEC VAX 11/780).
ACVC:	Acronym for the Ada Compiler Validation Capability.
RM:	The Ada Language Reference Manual.
IG:	ACVC Implementers' Guide.
AVO:	The Ada Validation Office. In the context of this report, the AVO is responsible for conducting compiler validations.
TARGET:	The computer for which a compiler generates object code (DEC VAX 11/780).
VALIDATION:	The process of validating a compiler. The term is used interchangeably with test or compiler test.
VALIDATION TESTS:	The generic form used to refer to a set of test programs which evaluate how closely a compiler conforms to its language specification. In this report, the term will be used (unqualified) to mean the ACVC tests.
ISI:	Information Sciences Institute, Marina del Rey, California.
ECLB:	The ARPANET name for the ISI computer on which the ACVC is hosted.
TECO:	A programmable text (line) editor at ECLB and NYU.

CHAPTER 2

Test Analysis

A summary of tests processed, by class, is given below, where:

Pr = processed.

NM = found to be inapplicable (not meaningful) for this implementation.

Er = found to be incorrect, and withdrawn from the validation.

P = passed.

F = failed.

FE = failed to execute to completion.

FC = failed to compile successfully.

Fs = total of all failures (i.e., F+FE+FC).

The following table shows that NYU Ada/ED passed all applicable correct tests.

Test Class	Pr	NM	Er	P	F	FE	FC	Fs	%Pass
A	45	0	0	45	0	0	0	0	100
B	590	9	12	569	0	0	0	0	100
C	711	32	2	677	0	0	0	0	100
D	12	0	0	12	0	0	0	0	100
L	10	2	0	8	0	0	0	0	100
Total	1368	43	14	1311	0	0	0	0	100

43 tests in the suite were processed but were found to be not applicable to the NYU Ada/ED translator (see section 4.2.7).

In addition, 14 tests were withdrawn from the test suite because they did not conform to the ANSI/MIL-STD-1815A Standard for the Ada Language standard (see Section 4.2.6 for details).

2.1 Class A Testing

Class A tests check that legal Ada programs can be successfully compiled. These tests are executed but contain no executable self-checking capabilities. There were 45 class A test programs used in this validation.

2.1.1 Class A Test Procedures

Each class A test was separately compiled and executed. However, the only purpose of execution is to produce a message indicating that the test passed.

2.1.2 Class A Test Results

Successful compilation and execution without any error messages indicates the tests passed. All 45 class A tests passed.

2.2 Class B Testing

Class B tests check the ability to recognize illegal language usage. 590 class B tests were processed.

2.2.1 Class B Test Procedures

Each class B test was separately compiled. The resulting test compilation listings were automatically analyzed by a TECO program that tried to match compiler error messages with Ada source lines marked (with comments) to indicate an illegal construct was present. The program marked all mismatches for subsequent manual analysis. The NYU Ada/ED compiler uses two forms of error messages: (1) point error messages, which indicate an error in the preceding source line, and (2) range error messages, which indicate an error in a preceding range of lines. Tests were classified as passed by the program if: (1) point error messages were found only after lines marked as containing an error, (2) the ranges of range error messages contained exactly one line marked with an error comment, and (3) each error comment line was matched by exactly one compiler error message. Tests that did not pass according to this criterion were manually examined to see whether every error in the test was detected and whether only error messages associated with these errors are present. In addition, all class B tests were manually examined to ensure that the text of each compiler error message was reasonable for the kind of error represented by each intentional error.

2.2.2 Class B Test Results

590 class B tests were presented to the compiler. Of these, 127 (21%) were classified as failed by the automatic analysis program. After manually examining these tests, 9 were found to be inapplicable to the implementation (see Section 4.2.7), and 11 were found to be incorrect. In addition, manual examination of the remaining class B tests (i.e., the tests passed by the automatic analyzer) showed that one of these tests was also incorrect. In summary, twenty-one class B tests were found to be either inapplicable or incorrect, and so were withdrawn from the validation. All 569 remaining class B tests passed. All 3449 individual errors were correctly detected by the compiler.

The following nine class B tests required linking (in addition to compiling) to detect the source program errors:

BC3204B-B.ADA
BC3204C*-B.DEP
BC3204D-AB.ADA

BC3205B-B.ADA
BC3205C-AB.ADA
BC3205D*-B.ADA
BC3205G-B.ADA
BC3205H-B.ADA
BC3205I*-B.ADA

These tests contain generic instantiations that are illegal because of the use of a generic formal type within the generic unit (see RM 12.3.2, paragraph 4). Although all the expected errors were reported after invoking the linking phase, three of these tests consisted of a single compilation unit. Hence, all the information needed to report the error was available after compiling the test. The other six tests contained separately compiled generic library units. For three of the six tests, all the separately compiled units were contained in a single compilation, and some implementations could be expected to report the expected errors prior to linking the units together. Although Ada/ED did not report the errors in the expected manner, they were considered to pass these tests because the errors were detected prior to execution of the main program.

2.3 Class C Testing

Class C tests check that legal Ada programs are correctly compiled and executed by an implementation. 711 class C tests were processed in this validation attempt.

2.3.1 Class C Test Procedures

Each Class C test was separately compiled and executed. The tests are self-checking and produce PASS-FAIL messages. All "failed" tests were individually checked to see if they were correct and if they were applicable to the implementation. Those tests that were inapplicable or that did not conform to the Ada standard were withdrawn.

2.3.2 Class C Test Results

The results of test executions were automatically analyzed and logged. 34 failed tests were manually examined to check the source of the error. 32 tests were found to be inapplicable to the implementation, and two tests were incorrect (see Sections 4.2.6 and 4.2.7). The remaining 677 tests were passed.

2.4 Class D Testing

Class D tests are executable tests used to check an implementation's compilation and execution capacities. 12 class D tests were used in this validation.

2.4.1 Class D Test Procedures

Each Class D test was separately compiled and executed. The tests are self-checking and produce PASS-FAIL messages. The results of test executions were automatically analyzed and logged.

2.4.2 Class D Test Results

All 12 class D tests passed.

2.5 Class L Testing

Class L tests check that incomplete or illegal Ada programs involving multiple separately compiled source files are detected at link time and are not allowed to execute. 10 test programs were processed in this validation attempt.

2.5.1 Class L Test Procedures

Each Class L test was separately compiled and execution was attempted. The tests produce FAIL messages if executed. All "failed" tests were individually checked to see if they were correct and if they were applicable to the implementation. Those tests that were inapplicable or that did not conform to the Ada standard were withdrawn.

2.5.2 Class L Test Results

Two failed tests were examined and found to be inapplicable to this implementation. The remaining 8 class L tests were passed.

CHAPTER 3

Compiler Nonconformances

There were no nonconformances to the Ada standard detected in this validation. The compiler passed all applicable tests in the test suite. (Note that extensions to Ada are nonconformances; none were detected.)

CHAPTER 4

Additional Information

This section describes in more detail how the validation was conducted.

4.1 Compiler Parameters

Certain tests do not apply to all Ada compilers, e.g., compilers are not required to support several predefined floating point types, and so tests must be selected based on the predefined types an implementation actually supports. In addition, some tests are parameterized according to the maximum input line length supported by an implementation, the maximum floating point digits value supported, etc. The implementation dependent parameters used in performing this validation were:

- . maximum input line length: 132 characters.
- . maximum digits value for floating point types: 6.
- . SYSTEM.MAX_INT: 1073741823 ($2^{30} - 1$).
- . predefined numeric types: INTEGER, FLOAT.
- . INTEGER'FIRST: -1073741823 ($-(2^{30} - 1)$).
- . INTEGER'LAST: 1073741823 ($2^{30} - 1$).
- . source character set: ASCII

4.2 Testing Information

Tests were compiled/executed at NYU in two simultaneously running batch jobs. Test code and control files for running the batch jobs were transmitted to NYU via the ARPANet from validation host ECLB, as permitted by AVO Policies and procedures, at the option of the AVO. Batch job control files were created at ECLB. Class B tests were run first since they require more manual analysis. TECO macros were written at NYU to automatically analyze the results of each compilation and/or execution, and the pass/fail results from this automatic analysis were automatically entered in a test results file. When any class A, C, D, or L test failed, the compilation and any execution listings were automatically printed out. In addition, all class B compilation listings were printed.

4.2.1 Pre-Test Procedures

Prior to testing, the appropriate values for the compiler-dependent parameters were determined. The appropriate tests were selected/generated, as were the corresponding control files for batch compilation and execution of the tests. The files were transmitted by ARPANet to an account and directories established at the test site.

4.2.2 Control Files

Three methods were used to invoke the translator:

- single unit class B tests were invoked using the ADACB command, which compiles and links but does not execute a program. (The linking was needed only for a few generic instantiation tests.)
- single unit class A, C, and D tests (i.e., tests that did not require separate compilation) were processed using the ADA command, which invokes the translator and executes the result of a successful compilation.
- each unit of a multiple unit class B, C, or L test was individually compiled using the ADAC command. The main program was then linked and executed using the ADAXL command. (Linking of class B tests was needed only for a few generic instantiation tests.)

After compilation and/or execution, the appropriate automatic analysis program was invoked. Appendix B shows the parameterized command procedures VALID.COM and VALIDMF.COM used to compile, execute, and analyze single and multiple unit tests, respectively.

4.2.3 Test Procedures

The package REPORT and the procedure CHECK_FILE were first compiled and the corresponding library file saved. A new copy of the library was used for each test. The tests were run in order by test name, i.e., in order by Ada Reference Manual (or ACVC Implementers' Guide) section (and test objective), except that all class B tests were run first. The test results were automatically analyzed and recorded.

4.2.4 Test Analysis Procedures

On completion of testing, all results were analyzed for failed class A, C, D, or L programs, and all class B compilation results were individually analyzed, whether initially judged to pass or fail. Analysis procedures are described for each test class in chapter 2.

Tests found to contain errors were withdrawn.

4.2.5 Performance Information

NYU Ada/ED is a compiler/interpreter implemented in the very high-level language SETL. Hence, Ada/ED compilation of Ada source code is somewhat slow, and Ada/ED execution of the resulting intermediate code is quite slow. The following table summarizes the compilation and execution times obtained for the validation test suite.

number of source files compiled:	1511
number of declarations/statements compiled:	46338
average number of decls/stmts per source file:	30.7
total CPU time to compile the above:	103816 sec
average CPU time to compile one source file:	68.7 sec
average CPU time to compile one decl/stmt:	2.24 sec
number of source files linked:	915
number of declarations/statements linked:	32569
average number of decls/stmts per source file:	35.6
total CPU time to link the above:	11197.1 sec
average CPU time to link one source file:	12.2 sec
average CPU time to link one decl/stmt:	0.344 sec
number of source files executed:	847
number of declarations/statements executed:	31921
average number of decls/stmts per source file:	37.7
total CPU time to execute the above:	68226 sec
average CPU time to execute one source file:	80.6 sec
average CPU time to execute one decl/stmt:	2.14 sec
CPU time to compile REPORT and CHECK_FILE:	8 min 13 sec
CPU time to process Chap. 1-7 tests:	1 day 9 hrs 9 min 22 sec
real time to process Chap. 1-7 tests:	3 days 16 hrs 19 min 5 sec
CPU time to process Chap. 8-2 tests:	1 day 7 hrs 38 min 9 sec
real time to process Chap. 8-2 tests:	3 days 14 hrs 25 min 28 sec

Note that the number of declarations/statements was determined by counting the number of semicolons in the source files. Also, most of the tests have no loops.

Since two job streams were executing simultaneously, the total elapsed time was 3 days, 16 hours, 19 minutes, and 5 seconds.

4.2.6 Description of Errors in Withdrawn Tests

The following tests in version 1.1 of the ACVC did not conform to the ANSI Ada standard and were withdrawn for the reasons given below.

- . An incorrect value in an expression made the expression non-static when it was required to be static: B37310B-B.ADA.

- A test checking that discriminant specifications satisfied the conformance rules specified in RM 6.3.1 incorrectly allowed a new name (obtained by a renaming declaration) to be considered identical to the old name: B38103A-AB.ADA.
- Incorrect allocator syntax was used: B48002J-AB.ADA.
- A deferred constant was allowed in the default expression of a generic formal parameter: B74301B-AB.ADA, B74301C-AB.ADA.
- SELECT_ERROR was used incorrectly as the name of a predefined exception: B83A01B.ADA, BB2001A.ADA, CC3120B-B.ADA.
- Interaction among syntax errors made the results of one test uninterpretable. This test will be split so each syntax error is contained in a single test: B91002A.ADA.
- These tests are obsolete: BA1101F0-AB.ADA, BA1101F1M-AB.ADA, CC1007A-B.ADA.
- An instantiation with an unconstrained array type was incorrectly marked as being legal: BC3403C-B.ADA.
- An instantiation with an unconstrained type was incorrectly marked as being legal: BC3405E-AB.ADA, BC3405F-AB.ADA.

4.2.7 Description of Inapplicable Tests

12 processed tests were inapplicable because SYSTEM.MAX_DIGITS was 6. These tests were:

C24113C-B	C35708C-B	C45421C-B
C35705C-B	C35802C-B	C45424C-B
C35706C-B	C45241C-B	C45521C-B
C35707C-B	C45321C-B	C45621C-B

In addition, 265 tests were not even processed since they required that MAX_DIGITS be greater than 6.

17 tests were inapplicable because the implementation did not support SHORT_INTEGER, LONG_INTEGER, SHORT_FLOAT, LONG_FLOAT, or LONG_LONG_INTEGER:

SHORT_INTEGER	C34001D-B, B52004E, C55B07B-AB, B55B09D-AB, B86001CR-AB
LONG_INTEGER	C34001E-B, B52004D, C55B07A-AB, B55B09C-AB, B86001CS-AB
SHORT_FLOAT	C34001F-B, C35702A-AB, B86001CP-AB
LONG_FLOAT	C34001G-B, C35702B-AB, B86001CA-AB
LONG_LONG_INTEGER	B86001DT-AB

C55B16A-AB was inapplicable because it required support for explicitly specifying the representation of an enumeration type.

LA3004A6M-AB and LA3004B6M-B were inapplicable because they required support for the INLINE pragma.

7 tests were inapplicable because the implementation did not allow more than one internal file to be associated with the same external file. These tests were:

CE2107A-B	CE2107E-B
CE2107B-B	CE2110B-B
CE2107C-B	CE2111D-B
CE2107D-B	

4 tests are applicable only to implementations that do not fully support sequential, direct, and text I/O. Since Ada/ED provided full support, these tests were not applicable:

CE2102D-B	CE2102F-B
CE2102E-B	CE2102G-B

4.2.8 Information Derived from the Tests

Processing of the following tests indicated that Ada/ED supports the following implementation options:

- C24101A-B.TST: if a based integer literal has a value exceeding SYSTEM.MAX_INT, an implementation may either reject the compilation unit at compile time or raise NUMERIC_ERROR at run-time. Raising NUMERIC_ERROR at run time is preferred, since it makes programs compilable for a wider variety of implementations (and the numeric literal might occur in an unexecutable portion of code). This test showed that Ada/ED raises NUMERIC_ERROR when an integer literal exceeds SYSTEM.MAX_INT.
- D29002K-B.ADA: This test declares 698 identifiers and was passed.
- C36202A-B.ADA and C36202B-B.ADA: NUMERIC_ERROR can be raised for arrays having a dimension with 'LENGTH > SYSTEM.MAX_INT >= INTEGER'LAST. STORAGE_ERROR can also be raised if such array objects are declared, but these tests only declare an array type whose component type is a null BOOLEAN array. For test C36202A, 'LENGTH exceeds INTEGER'LAST; for C36202B, 'LENGTH exceeds SYSTEM.MAX_INT. No exception was raised for either test by Ada/ED.
- C4A002A-AB.ADA, D4A002B-AB.ADA, C4A004A-AB.ADA, D4A004B-AB.ADA: These tests contain universal integer calculations requiring 16 and 32 bits of accuracy, i.e., with values that exceed SYSTEM.MAX_INT. An implementation is allowed to reject programs requiring such calculations, but Ada/ED performed them correctly.
- C52103Y-B.ADA: This test declares a multi-dimensional null array type (and object) with one dimension whose 'LENGTH exceeds INTEGER'LAST.

An implementation is allowed to raise NUMERIC_ERROR for such a type declaration. Ada/ED raised no exception in this case.

- C52103X-AB.ADA, C52104X-B.ADA, C52104Y.ADA: These tests declare boolean arrays with INTEGER'LAST+2 components. An implementation may raise NUMERIC_ERROR at the type declaration or STORAGE_ERROR when two arrays of these types are declared, or it may accept the type and object declarations. Ada/ED raised STORAGE_ERROR.
- C94004A-B.ADA: This test checks to see what happens when a library unit initiates a task and a main program terminates without insuring that the library unit's task is terminated. An implementation is allowed to terminate the library unit task, or it is allowed to leave the task in execution. Ada/ED terminates the library unit task when the main program terminates.
- CA1012A4M-B.DEP: This test checks whether an implementation requires generic library unit bodies to be compiled in the same compilation as the generic declaration. Ada/ED allows generic declarations and bodies to be compiled in completely separate compilations.
- AE2101C-B.DEP: This test can only be compiled if the sequential and direct input-output packages can be instantiated with unconstrained array types and unconstrained types with discriminants. Ada/ED allows such instantiations.
- CE2106A-B.DEP: This test checks whether dynamic creation and deletion of files is allowed. Ada/ED allows dynamic creation and deletion.
- CZ1103A-B.ADA: An implementation is allowed to pad TEXT_IO output lines with blanks. This test shows that Ada/ED does not pad lines in text files with blanks.

In addition, the processing of BC3204*-B and BC3205*-B showed that if a generic instantiation is illegal because of the use of a formal generic type within the unit, this illegality will be reported prior to link time only if the generic unit's body occurs textually before the instantiation.

CHAPTER 5

Summary and Conclusions

The Ada Validation Office identified 1325 of the ACVC version 1.1 tests as being applicable to the validation of the NYU Ada/ED compiler hosted on the DEC VAX 11/780. Of these, 14 were withdrawn due to test errors. 1311 tests were actually used to test compiler compliance (see Appendix A). The compiler passed all 1311 tests.

The AVO considers these results to show acceptable compliance to the January 1983 ANSI Ada Reference Manual.

APPENDIX A

Complete List of Tests and Results

This Appendix gives a complete list of the ACVC test files used in the validation attempt, in order by ACVC Implementers' Guide (Ada Reference Manual) section and objective.

To obtain more information about a test itself, the test name indicates the class of the test and which test objective in the ACVC Implementers' Guide applies to the test. The name is interpreted as follows, where the first column below indicates the character position in the name and the second column, the meaning of that position:

- 1 Class of test (A, B, C, D, E, L).
- 2 Implementers' Guide Chapter number (in hexadecimal).
- 3 Implementers' Guide Section number within a Chapter (in hexadecimal).
- 4 Implementers' Guide Subsection number or letter.
- 5, 6 Implementers' Guide Test Objective number (two digit decimal number).
- 7 Test sequence letter (A-Z).
- 8 Compilation sequence digit or letter (0-9,A-Z).
- 9 When there are several compilation units, "M" indicates the main program.

Characters 8 and 9 are only present for tests that consist of several separately compiled units. The eighth character indicates the order in which the units are to be compiled (unit 0 is compiled first). The ninth character is only present for the main program and is always "M".

The suffix -AB means the test is valid for both the ANSI Ada Standard and the version of Ada published in July 1980. A -B suffix implies the test is only valid for the ANSI Standard. Tests without a suffix are considered to be applicable to both the ANSI Standard and the July 1980 version.

A file name ending with .TST means the test depends on one or more of the implementation dependent parameters listed in Section 4.1. A file name ending with .DEP means the test is not necessarily applicable to all implementations.

The result for each file is also given, where:

- P = passed.
- PC = compilation was successful (for unit of multiple unit test)
- F = failed.
- FE = failed to execute to completion.
- FC = failed to compile correctly.
- N = not applicable to this implementation.
- W = withdrawn due to test errors.

An M after any of the above results indicates that manual examination was required to determine the correct result..

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In addition, the following data were collected and are given for each test file.

SC=n the number of semicolons in the source file.
CT=n the compilation (CPU) time (in seconds).
LT=n the link (CPU) time (in seconds).
ET=n the execution (CPU) time (in seconds).
EC=n the number of intentional errors (marked by comments) in a class B file.

The CPU times are those reported by the NYU implementation.

The results for each test file were as follows:

A21001.ADA	P	SC=30	CT=53	LT=11.5	ET=43
B22001A.TST	PM	SC=26	CT=82	EC=8	
B22001B.TST	PM	SC=8	CT=50	EC=3	
B22001C.TST	PM	SC=9	CT=51	EC=3	
A22002A.ADA	P	SC=28	CT=56	LT=11.6	ET=44
B22003A.ADA	PM	SC=11	CT=59	EC=5	
B22004A.ADA	P	SC=7	CT=39	EC=5	
B22004B.ADA	P	SC=6	CT=54	EC=4	
B22004C.ADA	P	SC=7	CT=57	EC=4	
C23001A.ADA	P	SC=16	CT=37	LT=11.6	ET=36
B23002A.ADA	P	SC=13	CT=15	EC=6	
C23003A.TST	P	SC=17	CT=53	LT=12.2	ET=43
B23004A.ADA	P	SC=19	CT=36	EC=8	
B23004B.ADA	P	SC=27	CT=53	EC=12	
B24001A.ADA	P	SC=30	CT=27	EC=14	
B24001B.ADA	P	SC=36	CT=42	EC=17	
B24001C.ADA	P	SC=37	CT=38	EC=17	
C24002A.ADA	P	SC=10	CT=24	LT=11.2	ET=65
C24002B.ADA	P	SC=10	CT=25	LT=10.3	ET=40
C24002C.ADA	P	SC=11	CT=24	LT=10.7	ET=53
C24003A.TST	P	SC=15	CT=39	LT=11.3	ET=34
C24003B.TST	P	SC=20	CT=67	LT=12.3	ET=44
C24003C.TST	P	SC=21	CT=62	LT=12.7	ET=49
B24005A.ADA	P	SC=14	CT=17	EC=6	
B24005B.ADA	P	SC=15	CT=18	EC=6	
C24101A-B.TST	P	SC=14	CT=27	LT=10.9	ET=35
C24102A.ADA	P	SC=13	CT=25	LT=10.3	ET=34
C24102B.ADA	P	SC=14	CT=35	LT=10.7	ET=35
C24102C.ADA	P	SC=17	CT=42	LT=10.9	ET=36
C24103A.ADA	P	SC=38	CT=70	LT=13.3	ET=35
B24104A.ADA	P	SC=20	CT=66	EC=18	
B24104B.ADA	P	SC=8	CT=56	EC=6	
B24104C.ADA	P	SC=9	CT=60	EC=6	
C24113A-B.DEP	P	SC=18	CT=57	LT=10.9	ET=46
C24113B-B.DEP	P	SC=18	CT=71	LT=10.9	ET=46
C24113C-B.DEP	NM	SC=18	CT=67		
B26002A.ADA	P	SC=11	CT=33	EC=4	
C26002B.ADA	P	SC=19	CT=39	LT=11.4	ET=42

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A26004A.TST	P	SC=11	CT=24	LT=11.2	ET=49
B26005A.ADA	PM	SC=37	CT=51	EC=31	
C26006A.ADA	P	SC=12	CT=29	LT=10.4	ET=135
C26008A.ADA	P	SC=9	CT=20	LT=10.4	ET=33
C27001A.ADA	P	SC=10	CT=21	LT=10.4	ET=41
C27002A-B.ADA	P	SC=15	CT=22	LT=10.8	ET=35
B29001A.ADA	P	SC=126	CT=210	EC=62	
A29002A-B.ADA	P	SC=74	CT=63	LT=12.6	ET=50
A29002B-B.ADA	P	SC=69	CT=63	LT=12.2	ET=48
A29002C-B.ADA	P	SC=68	CT=63	LT=12.1	ET=49
A29002D-B.ADA	P	SC=90	CT=79	LT=13.0	ET=53
A29002E-B.ADA	P	SC=72	CT=78	LT=12.1	ET=48
A29002F-B.ADA	P	SC=111	CT=103	LT=14.0	ET=61
A29002G-B.ADA	P	SC=88	CT=78	LT=12.5	ET=53
A29002H-B.ADA	P	SC=63	CT=59	LT=11.0	ET=53
A29002I-B.ADA	P	SC=95	CT=88	LT=13.2	ET=56
A29002J-B.ADA	P	SC=81	CT=71	LT=12.4	ET=51
D29002K-B.ADA	PM	SC=766	CT=1076	LT=39.2	ET=864
B32103A-AB.ADA	PM	SC=26	CT=36	EC=12	
B32106A-B.ADA	P	SC=10	CT=20	EC=4	
B32201A-B.ADA	P	SC=64	CT=116	EC=26	
B32202A-B.ADA	PM	SC=33	CT=57	EC=15	
B32202B-B.ADA	P	SC=21	CT=33	EC=9	
B32202C-B.ADA	P	SC=28	CT=46	EC=12	
C32203A-B.ADA	P	SC=15	CT=28	LT=10.5	ET=47
A32203B-B.ADA	P	SC=22	CT=41	LT=10.5	ET=45
A32203C-B.ADA	P	SC=18	CT=39	LT=10.6	ET=52
A32203D-B.ADA	P	SC=16	CT=27	LT=10.4	ET=57
B33001A.ADA	PM	SC=27	CT=29	EC=10	
B33002A.ADA	P	SC=8	CT=18	EC=5	
B33003A.ADA	P	SC=14	CT=20	EC=4	
B33003B-AB.ADA	P	SC=22	CT=30	EC=9	
B33003C-AB.ADA	P	SC=22	CT=30	EC=9	
B33004A.ADA	PM	SC=33	CT=110	EC=19	
C34001A-B.ADA	P	SC=66	CT=205	LT=15.2	ET=49
C34001B-B.ADA	P	SC=41	CT=82	LT=13.6	ET=37
C34001C-B.ADA	P	SC=37	CT=84	LT=13.1	ET=37
C34001D-B.DEP	NM	SC=24	CT=45		
C34001E-B.DEP	NM	SC=24	CT=42		
C34001F-B.DEP	NM	SC=43	CT=87		
C34001G-B.DEP	NM	SC=43	CT=93		
C34001H-B.ADA	P	SC=24	CT=44	LT=11.9	ET=41
C34001I-B.ADA	P	SC=29	CT=74	LT=12.9	ET=58
C34001K-B.ADA	P	SC=54	CT=117	LT=15.2	ET=56
C34001L-B.ADA	P	SC=48	CT=103	LT=15.3	ET=41
C34001M-B.ADA	P	SC=28	CT=59	LT=12.0	ET=40
C34001N-B.ADA	P	SC=28	CT=90	LT=12.7	ET=55
C34001O-B.ADA	P	SC=84	CT=187	LT=18.8	ET=71
C34001P-B.ADA	P	SC=25	CT=39	LT=11.7	ET=39
C34001Q-B.ADA	P	SC=27	CT=43	LT=11.5	ET=41
C34001R-B.ADA	P	SC=21	CT=30	LT=10.8	ET=37
B34001S-AB.ADA	P	SC=15	CT=23	EC=3	

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C34001T-B.ADA	P	SC=22	CT=29	LT=10.8	ET=36
B35101A.ADA	P	SC=6	CT=16	EC=3	
C35104A.ADA	P	SC=9	CT=36	LT=10.0	ET=39
B35301A.ADA	P	SC=12	CT=29	EC=6	
B35501A.ADA	P	SC=34	CT=65	EC=18	
C35504A-AB.ADA	P	SC=13	CT=50	LT=10.0	ET=99
C35504B-B.ADA	P	SC=22	CT=53	LT=11.6	ET=60
C35505A.ADA	P	SC=28	CT=52	LT=11.0	ET=47
C35505B.ADA	P	SC=27	CT=54	LT=12.8	ET=55
B35506A.ADA	P	SC=36	CT=144	EC=9	
B35506B.ADA	P	SC=23	CT=50	EC=9	
C35508A-AB.ADA	P	SC=21	CT=128	LT=12.8	ET=74
C35508B-B.ADA	P	SC=64	CT=145	LT=16.3	ET=73
B35701A.TST	P	SC=10	CT=17	EC=6	
C35702A-AB.DEP	NM	SC=7	CT=14		
C35702B-AB.DEP	NM	SC=7	CT=13		
C35703A.ADA	P	SC=11	CT=23	LT=10.1	ET=46
C35704A-AB.ADA	P	SC=12	CT=33	LT=10.3	ET=43
C35704B-AB.ADA	P	SC=12	CT=38	LT=10.5	ET=49
C35704C-AB.ADA	P	SC=12	CT=47	LT=10.7	ET=49
C35704D-AB.ADA	P	SC=16	CT=48	LT=10.5	ET=43
C35705A-B.DEP	P	SC=16	CT=60	LT=11.2	ET=72
C35705B-B.DEP	P	SC=16	CT=58	LT=10.6	ET=67
C35705C-B.DEP	NM	SC=16	CT=60		
C35706A-B.DEP	P	SC=15	CT=210	LT=11.9	ET=137
C35706B-B.DEP	P	SC=15	CT=211	LT=11.8	ET=139
C35706C-B.DEP	NM	SC=15	CT=209		
C35707A-B.DEP	P	SC=11	CT=29	LT=10.3	ET=48
C35707B-B.DEP	P	SC=11	CT=29	LT=10.4	ET=49
C35707C-B.DEP	NM	SC=11	CT=32		
C35708A-B.DEP	P	SC=11	CT=29	LT=9.0	ET=33
C35708B-B.DEP	P	SC=11	CT=31	LT=10.4	ET=36
C35708C-B.DEP	NM	SC=11	CT=28		
B35709A.ADA	P	SC=14	CT=23	EC=3	
C35802A-B.DEP	P	SC=22	CT=48	LT=11.5	ET=59
C35802B-B.DEP	P	SC=22	CT=49	LT=11.6	ET=59
C35802C-B.DEP	NM	SC=22	CT=49		
B36101A-AB.ADA	P	SC=119	CT=263	EC=68	
B36102A.ADA	P	SC=35	CT=74	EC=17	
B36103A.ADA	P	SC=17	CT=37	EC=7	
B36171A-B.ADA	P	SC=68	CT=205	EC=33	
B36171B-B.ADA	P	SC=16	CT=23	EC=4	
B36171C-AB.ADA	P	SC=4	CT=13	EC=1	
B36171D-AB.ADA	P	SC=3	CT=8	EC=1	
B36171E-AB.ADA	P	SC=3	CT=8	EC=1	
B36171F-AB.ADA	P	SC=3	CT=15	EC=1	
B36171G-AB.ADA	P	SC=5	CT=16	EC=1	
B36171H-AB.ADA	P	SC=4	CT=15	EC=1	
B36171I-AB.ADA	PM	SC=4	CT=11	EC=1	
C36172A-B.ADA	P	SC=86	CT=147	LT=18.0	ET=48
C36174A.ADA	P	SC=39	CT=174	LT=15.8	ET=75
B36201A-B.ADA	P	SC=60	CT=107	EC=32	

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C36202A-B.ADA	P	SC=20	CT=40	LT=11.6	ET=43
C36202B-B.ADA	P	SC=23	CT=45	LT=11.0	ET=54
C36204A-B.ADA	P	SC=51	CT=222	LT=17.1	ET=119
C36205A.ADA	P	SC=70	CT=319	LT=21.3	ET=125
C36205B.ADA	P	SC=62	CT=240	LT=19.2	ET=145
C36205C.ADA	P	SC=58	CT=212	LT=17.0	ET=119
C36205D.ADA	P	SC=72	CT=281	LT=20.4	ET=211
C36205E.ADA	P	SC=57	CT=207	LT=17.8	ET=110
C36205F.ADA	P	SC=58	CT=222	LT=18.4	ET=117
C36205G.ADA	P	SC=58	CT=214	LT=18.2	ET=127
C36205H.ADA	P	SC=59	CT=218	LT=18.0	ET=122
C36205I.ADA	P	SC=59	CT=222	LT=18.4	ET=127
C36205J.ADA	P	SC=67	CT=247	LT=19.0	ET=952
C36205K.ADA	P	SC=62	CT=228	LT=18.6	ET=278
C36301A-B.ADA	P	SC=16	CT=32	LT=10.8	ET=34
C36301B-AB.ADA	P	SC=12	CT=23	LT=10.2	ET=33
C36302A.ADA	P	SC=9	CT=29	LT=10.1	ET=34
C36303A.ADA	P	SC=15	CT=32	LT=10.7	ET=44
C36304A.ADA	P	SC=33	CT=97	LT=12.7	ET=64
C36305A-AB.ADA	P	SC=40	CT=135	LT=14.8	ET=78
B37003A-AB.ADA	P	SC=35	CT=86	EC=14	
B37004A-B.ADA	P	SC=44	CT=101	EC=27	
B37004C-B.ADA	PM	SC=12	CT=50	EC=4	
B37004D-B.ADA	PM	SC=4	CT=12	EC=1	
B37004E-B.ADA	PM	SC=8	CT=29	EC=1	
B37004F-B.ADA	PM	SC=8	CT=23	EC=1	
B37004G-B.ADA	P	SC=5	CT=12	EC=1	
B37004H-B.ADA	PM	SC=11	CT=64	EC=5	
C37005A.ADA	P	SC=30	CT=78	LT=12.4	ET=71
C37007A-AB.ADA	P	SC=60	CT=182	LT=16.9	ET=112
C37008A-B.ADA	P	SC=126	CT=215	LT=20.9	ET=70
C37008B-B.ADA	P	SC=99	CT=182	LT=18.1	ET=65
C37011A-B.ADA	P	SC=26	CT=42	LT=11.5	ET=38
C37012A-AB.ADA	P	SC=19	CT=46	LT=10.9	ET=52
C37013A-AB.ADA	P	SC=18	CT=45	LT=11.1	ET=44
B37101A.ADA	P	SC=44	CT=56	EC=9	
C37103A-AB.ADA	P	SC=41	CT=176	LT=12.6	ET=47
C37105A.ADA	P	SC=18	CT=52	LT=11.0	ET=44
B37201A.ADA	P	SC=28	CT=70	EC=13	
B37202A.ADA	P	SC=44	CT=63	EC=19	
B37202B.ADA	P	SC=7	CT=8	EC=1	
B37203A.ADA	P	SC=14	CT=19	EC=6	
B37204A-AB.ADA	P	SC=54	CT=72	EC=11	
B37205A-AB.ADA	P	SC=8	CT=17	EC=3	
C37208A-B.ADA	P	SC=68	CT=176	LT=17.6	ET=135
C37208B-AB.ADA	P	SC=37	CT=84	LT=14.8	ET=86
C37209A.ADA	P	SC=73	CT=143	LT=15.9	ET=226
B37301A.ADA	PM	SC=25	CT=90	EC=8	
B37301B.ADA	PM	SC=33	CT=53	EC=6	
B37302A-AB.ADA	P	SC=36	CT=53	EC=11	
B37303A.ADA	P	SC=25	CT=37	EC=5	
C37304A-AB.ADA	P	SC=22	CT=63	LT=10.9	ET=38

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C37305A.ADA	P	SC=24	CT=44	LT=10.6	ET=48
C37306A.ADA	P	SC=21	CT=39	LT=10.5	ET=36
C37307A.ADA	P	SC=40	CT=76	LT=11.6	ET=63
B37307B.ADA	P	SC=26	CT=91	EC=4	
C37309A-AB.ADA	P	SC=22	CT=42	LT=10.9	ET=44
B37309B-AB.ADA	P	SC=17	CT=26	EC=2	
C37310A-AB.ADA	P	SC=48	CT=183	LT=13.0	ET=67
B37310B-B.ADA	WM	SC=30	CT=135	EC=5	
B37311A-AB.ADA	P	SC=10	CT=16	EC=2	
B38001A.ADA	P	SC=12	CT=24	EC=4	
B38003A-AB.ADA	P	SC=23	CT=46	EC=13	
C38004A.ADA	P	SC=19	CT=46	LT=11.8	ET=61
C38005A-B.ADA	P	SC=66	CT=155	LT=17.0	ET=69
C38006A-B.ADA	P	SC=12	CT=23	LT=10.3	ET=46
C38007A-B.ADA	P	SC=13	CT=29	LT=10.5	ET=59
B38008A-B.ADA	P	SC=18	CT=44	EC=8	
B38008B-AB.ADA	P	SC=24	CT=46	EC=12	
B38101B-AB.ADA	P	SC=12	CT=12	EC=1	
C38102A-AB.ADA	P	SC=89	CT=123	LT=14.5	ET=76
C38102B-B.ADA	P	SC=16	CT=31	LT=10.5	ET=35
C38102C-B.ADA	P	SC=16	CT=31	LT=10.0	ET=36
B38103A-B.ADA	WM	SC=70	CT=100	EC=8	
C38104A-B.ADA	P	SC=34	CT=69	LT=12.1	ET=74
B38105B-AB.ADA	P	SC=28	CT=39	EC=6	
B41101A-B.ADA	P	SC=19	CT=44	EC=5	
B41101C.ADA	P	SC=23	CT=39	EC=6	
C41101D-B.ADA	P	SC=33	CT=78	LT=13.2	ET=75
B41102A-B.ADA	P	SC=13	CT=79	EC=3	
C41103A-B.ADA	P	SC=124	CT=407	LT=23.0	ET=103
C41103B-B.ADA	P	SC=124	CT=451	LT=25.0	ET=129
C41105A-B.ADA	P	SC=28	CT=50	LT=11.6	ET=49
C41106A-B.ADA	P	SC=22	CT=73	LT=12.4	ET=74
C41107A.ADA	P	SC=71	CT=255	LT=18.3	ET=94
B41201A-B.ADA	P	SC=58	CT=110	EC=21	
B41201C.ADA	P	SC=22	CT=44	EC=5	
C41201D-B.ADA	P	SC=36	CT=109	LT=13.9	ET=62
B41202A-B.ADA	P	SC=12	CT=96	EC=3	
B41202B-AB.ADA	P	SC=8	CT=47	EC=1	
B41202C-B.ADA	P	SC=8	CT=48	EC=1	
B41202D-B.ADA	P	SC=8	CT=18	EC=1	
C41203A-B.ADA	P	SC=127	CT=471	LT=26.5	ET=102
C41203B-B.ADA	P	SC=126	CT=553	LT=28.2	ET=158
C41204A.ADA	P	SC=29	CT=62	LT=12.5	ET=61
C41205A-B.ADA	P	SC=30	CT=61	LT=12.3	ET=56
C41206A.ADA	P	SC=29	CT=73	LT=12.5	ET=52
C41301A-B.ADA	P	SC=110	CT=330	LT=24.2	ET=115
B41302A.ADA	P	SC=9	CT=52	EC=2	
C41303A-B.ADA	P	SC=18	CT=42	LT=11.5	ET=60
C41303B-B.ADA	P	SC=17	CT=43	LT=11.9	ET=58
C41303C-B.ADA	P	SC=17	CT=34	LT=11.1	ET=60
C41303E-B.ADA	P	SC=20	CT=39	LT=11.1	ET=63
C41303F-B.ADA	P	SC=19	CT=39	LT=11.2	ET=61

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C41303G-B.ADA	P	SC=19	CT=37	LT=10.9	ET=61
C41303I-B.ADA	P	SC=20	CT=46	LT=11.8	ET=71
C41303J-B.ADA	P	SC=19	CT=41	LT=11.2	ET=65
C41303K-B.ADA	P	SC=19	CT=39	LT=11.3	ET=65
C41303M-B.ADA	P	SC=32	CT=71	LT=12.8	ET=65
C41303N-B.ADA	P	SC=31	CT=68	LT=12.2	ET=61
C41303O-B.ADA	P	SC=31	CT=59	LT=12.2	ET=61
C41303Q-B.ADA	P	SC=34	CT=64	LT=12.2	ET=66
C41303R-B.ADA	P	SC=33	CT=64	LT=11.0	ET=66
C41303S-B.ADA	P	SC=33	CT=61	LT=12.3	ET=66
C41303U-B.ADA	P	SC=34	CT=76	LT=12.0	ET=71
C41303V-B.ADA	P	SC=33	CT=73	LT=12.6	ET=70
C41303W-B.ADA	P	SC=33	CT=65	LT=12.2	ET=71
C41304A-B.ADA	P	SC=53	CT=93	LT=13.8	ET=72
C41306A-B.ADA	P	SC=18	CT=27	LT=10.7	ET=52
C41306B-B.ADA	P	SC=32	CT=56	LT=12.4	ET=68
C41306C-B.ADA	P	SC=32	CT=61	LT=12.2	ET=68
B44001A.ADA	PM	SC=62	CT=372	EC=17	
B44002A-B.ADA	PM	SC=59	CT=61	EC=13	
B44002B-B.ADA	P	SC=23	CT=26	EC=5	
B44002C.ADA	P	SC=4	CT=6	EC=1	
C45101A.ADA	P	SC=56	CT=153	LT=14.8	ET=133
C45101B.ADA	P	SC=35	CT=89	LT=12.7	ET=79
C45101C.ADA	P	SC=26	CT=52	LT=11.4	ET=44
C45101E.ADA	P	SC=35	CT=55	LT=11.9	ET=47
C45101G.ADA	P	SC=55	CT=262	LT=17.5	ET=190
C45101H.ADA	P	SC=34	CT=166	LT=14.5	ET=117
C45101I.ADA	P	SC=23	CT=63	LT=11.8	ET=48
B45102A-AB.ADA	PM	SC=38	CT=57	EC=18	
C45103A-AB.ADA	P	SC=75	CT=113	LT=16.1	ET=92
C45103B-AB.ADA	P	SC=35	CT=85	LT=12.6	ET=113
C45103C-AB.ADA	P	SC=40	CT=101	LT=13.3	ET=69
C45104A.ADA	P	SC=11	CT=22	LT=10.5	ET=34
C45105A-AB.ADA	P	SC=18	CT=35	LT=10.9	ET=40
C45105B-B.ADA	P	SC=28	CT=51	LT=11.8	ET=55
C45106A.ADA	P	SC=31	CT=57	LT=11.7	ET=39
C45201A.ADA	P	SC=109	CT=220	LT=17.4	ET=607
C45201B.ADA	P	SC=102	CT=219	LT=16.9	ET=531
C45202A-AB.ADA	P	SC=14	CT=35	LT=10.6	ET=64
B45203A.ADA	P	SC=17	CT=25	EC=6	
B45203B-AB.ADA	P	SC=17	CT=32	EC=6	
B45205A-AB.ADA	P	SC=29	CT=200	EC=12	
B45206A-AB.ADA	P	SC=65	CT=109	EC=22	
B45206B-B.ADA	P	SC=9	CT=17	EC=3	
B45207A-AB.ADA	P	SC=14	CT=19	EC=2	
B45207B-B.ADA	P	SC=37	CT=53	EC=6	
B45207C-B.ADA	P	SC=41	CT=64	EC=6	
B45207D-B.ADA	P	SC=49	CT=80	EC=6	
B45207G-B.ADA	P	SC=15	CT=21	EC=3	
B45207H-B.ADA	P	SC=31	CT=42	EC=6	
B45207I-B.ADA	P	SC=35	CT=45	EC=6	
B45207J-B.ADA	P	SC=41	CT=65	EE=6	

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B45207M-AB.ADA	P	SC=12	CT=16	EC=2
B45207N-AB.ADA	P	SC=26	CT=32	EC=4
B45207O-AB.ADA	P	SC=29	CT=35	EC=4
B45207P-B.ADA	P	SC=31	CT=43	EC=4
B45207S-AB.ADA	P	SC=14	CT=17	EC=2
B45207T-AB.ADA	P	SC=29	CT=35	EC=4
B45207U-AB.ADA	P	SC=32	CT=38	EC=4
B45207V-B.ADA	P	SC=34	CT=44	EC=4
B45208A-AB.ADA	P	SC=27	CT=21	EC=2
B45208B-B.ADA	P	SC=34	CT=35	EC=3
B45208C-B.ADA	P	SC=32	CT=31	EC=4
B45208G-AB.ADA	P	SC=25	CT=18	EC=2
B45208H-B.ADA	P	SC=29	CT=24	EC=3
B45208I-B.ADA	P	SC=34	CT=34	EC=4
B45208M-AB.ADA	P	SC=20	CT=17	EC=2
B45208N-AB.ADA	P	SC=21	CT=19	EC=2
B45208S-AB.ADA	P	SC=22	CT=18	EC=2
B45208T-AB.ADA	P	SC=36	CT=36	EC=4
C45210A.ADA	P	SC=85	CT=159	LT=14.9 ET=87
C45220A.ADA	P	SC=102	CT=133	LT=14.8 ET=64
C45220B.ADA	P	SC=192	CT=237	LT=19.0 ET=76
C45220C.ADA	P	SC=107	CT=186	LT=15.3 ET=68
C45220D.ADA	P	SC=197	CT=321	LT=19.9 ET=81
C45220E-B.ADA	P	SC=13	CT=32	LT=10.4 ET=47
C45241A-B.DEP	P	SC=52	CT=107	LT=14.5 ET=162
C45241B-B.DEP	P	SC=52	CT=109	LT=14.7 ET=165
C45241C-B.DEP	NM	SC=52	CT=115	
B45261A-AB.ADA	P	SC=23	CT=42	EC=6
B45261B-AB.ADA	P	SC=26	CT=47	EC=6
B45261C-AB.ADA	P	SC=9	CT=21	EC=2
B45261D-AB.ADA	P	SC=8	CT=17	EC=2
C45274A-AB.ADA	P	SC=67	CT=91	LT=14.5 ET=84
C45274B-AB.ADA	P	SC=70	CT=114	LT=14.0 ET=72
C45274C-AB.ADA	P	SC=53	CT=106	LT=13.7 ET=62
C45321A-B.DEP	P	SC=117	CT=283	LT=21.5 ET=333
C45321B-B.DEP	P	SC=117	CT=308	LT=22.9 ET=353
C45321C-B.DEP	NM	SC=117	CT=289	
C45345A-AB.ADA	P	SC=29	CT=60	LT=11.9 ET=60
C45345B-AB.ADA	P	SC=22	CT=49	LT=12.5 ET=61
C45401A.ADA	P	SC=42	CT=63	LT=11.9 ET=44
C45401B.ADA	P	SC=54	CT=118	LT=13.3 ET=68
B45402A.ADA	P	SC=29	CT=55	EC=12
C45421A-B.DEP	P	SC=22	CT=42	LT=11.3 ET=63
C45421B-B.DEP	P	SC=22	CT=42	LT=11.6 ET=62
C45421C-B.DEP	NM	SC=22	CT=43	
C45424A-B.DEP	P	SC=31	CT=70	LT=12.1 ET=67
C45424B-B.DEP	P	SC=31	CT=73	LT=12.3 ET=69
C45424C-B.DEP	NM	SC=31	CT=73	
C45521A-B.DEP	P	SC=188	CT=385	LT=24.3 ET=261
C45521B-B.DEP	P	SC=188	CT=380	LT=22.7 ET=266
C45521C-B.DEP	NM	SC=188	CT=394	
B45522A.ADA	P	SC=9	CT=16	EC=4

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B45533A-AB.ADA	P	SC=7	CT=14	EC=2
C45621A.DEP	P	SC=53	CT=201	LT=14.5 ET=91
C45621B.DEP	P	SC=53	CT=199	LT=14.6 ET=87
C45621C.DEP	NM	SC=53	CT=215	
B48001A-B.ADA	P	SC=71	CT=83	EC=7
B48001B-B.ADA	P	SC=51	CT=63	EC=3
B48001C-AB.ADA	P	SC=22	CT=25	EC=5
B48001D-B.ADA	P	SC=51	CT=65	EC=3
B48002A-B.ADA	P	SC=26	CT=72	EC=6
B48002B-AB.ADA	P	SC=17	CT=35	EC=2
B48002C-B.ADA	P	SC=34	CT=79	EC=9
B48002D-B.ADA	P	SC=20	CT=44	EC=4
B48002E-AB.ADA	P	SC=46	CT=97	EC=10
B48002F-AB.ADA	P	SC=33	CT=62	EC=6
B48002G-AB.ADA	P	SC=46	CT=77	EC=6
B48002I-B.ADA	P	SC=24	CT=51	EC=4
B48002J-AB.ADA	WM	SC=44	CT=110	EC=9
C48003A-B.ADA	P	SC=28	CT=60	LT=12.5 ET=74
C48003B-B.ADA	P	SC=29	CT=49	LT=11.8 ET=83
C48003C-B.ADA	P	SC=23	CT=43	LT=11.5 ET=81
C48003D-B.ADA	P	SC=26	CT=52	LT=12.5 ET=81
C48003E-B.ADA	P	SC=32	CT=62	LT=12.7 ET=82
C48003F.ADA	P	SC=16	CT=36	LT=11.1 ET=69
C48003G-B.ADA	P	SC=24	CT=57	LT=12.1 ET=79
C48004A-B.ADA	P	SC=87	CT=166	LT=15.3 ET=81
C48005A-B.ADA	P	SC=17	CT=49	LT=11.3 ET=66
C48005B-B.ADA	P	SC=45	CT=223	LT=16.9 ET=103
C48005C-AB.ADA	P	SC=31	CT=80	LT=12.4 ET=72
C48005D-AB.ADA	P	SC=15	CT=47	LT=11.1 ET=68
C4A001A.ADA	P	SC=49	CT=139	LT=11.9 ET=36
C4A002A.ADA	P	SC=14	CT=38	LT=9.0 ET=54
D4A002B.ADA	P	SC=14	CT=40	LT=9.0 ET=51
C4A003A.ADA	P	SC=14	CT=34	LT=10.2 ET=51
C4A004A.ADA	P	SC=16	CT=41	LT=10.4 ET=51
D4A004B.ADA	P	SC=24	CT=51	LT=10.6 ET=49
B4A006A-B.ADA	P	SC=4	CT=8	EC=1
C4A011A.ADA	P	SC=57	CT=216	LT=12.1 ET=35
C4A013A.ADA	P	SC=14	CT=32	LT=10.0 ET=51
B4A016A.ADA	P	SC=4	CT=7	EC=2
B51001A.ADA	PM	SC=29	CT=91	EC=6
C51002A.ADA	P	SC=28	CT=48	LT=11.2 ET=47
B51003A.ADA	PM	SC=15	CT=70	EC=6
C52001A-B.ADA	P	SC=92	CT=266	LT=18.4 ET=88
C52001B.ADA	P	SC=21	CT=41	LT=10.7 ET=38
C52001C.ADA	P	SC=15	CT=29	LT=10.6 ET=37
B52002A-B.ADA	P	SC=18	CT=32	EC=6
B52002B.ADA	P	SC=16	CT=22	EC=9
B52002C.ADA	P	SC=26	CT=32	EC=8
B52002D-AB.ADA	P	SC=3	CT=9	EC=1
B52002E-AB.ADA	PM	SC=5	CT=23	EC=2
B52002F-B.ADA	P	SC=5	CT=11	EC=1
B52002G-AB.ADA	P	SC=5	CT=9	EC=1

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B52003A.ADA	P	SC=7	CT=42	EC=3
B52004A-B.ADA	P	SC=41	CT=89	EC=23
B52004B.ADA	P	SC=19	CT=50	EC=11
B52004C.ADA	P	SC=16	CT=41	EC=9
B52004D.DEP	NM	SC=10	CT=24	EC=3
B52004E.DEP	NM	SC=10	CT=25	EC=3
C52005A.ADA	P	SC=47	CT=108	LT=15.6 ET=80
C52005B.ADA	P	SC=27	CT=61	LT=12.8 ET=49
C52005C.ADA	P	SC=17	CT=37	LT=11.0 ET=48
C52005D.ADA	P	SC=53	CT=107	LT=15.7 ET=76
C52005E.ADA	P	SC=39	CT=87	LT=13.5 ET=52
C52005F.ADA	P	SC=23	CT=48	LT=11.8 ET=46
B52006A.ADA	P	SC=6	CT=19	EC=3
C52007A-B.ADA	P	SC=87	CT=165	LT=18.7 ET=56
C52008A.ADA	P	SC=17	CT=45	LT=11.7 ET=63
C52008B-B.ADA	P	SC=32	CT=109	LT=13.6 ET=121
C52009A-B.ADA	P	SC=18	CT=45	LT=11.4 ET=70
C52009B-B.ADA	P	SC=18	CT=49	LT=11.9 ET=72
C52010A.ADA	P	SC=69	CT=183	LT=16.4 ET=57
C52011A-B.ADA	P	SC=50	CT=112	LT=15.1 ET=75
C52011B-AB.ADA	P	SC=55	CT=107	LT=14.1 ET=62
C52102A-AB.ADA	P	SC=95	CT=365	LT=21.5 ET=116
C52102B-AB.ADA	P	SC=104	CT=409	LT=22.5 ET=135
C52103A.ADA	P	SC=56	CT=124	LT=14.8 ET=151
C52103B.ADA	P	SC=20	CT=43	LT=11.8 ET=48
C52103C.ADA	P	SC=28	CT=69	LT=13.3 ET=54
C52103F.ADA	P	SC=45	CT=87	LT=13.1 ET=57
C52103G.ADA	P	SC=21	CT=41	LT=11.6 ET=47
C52103H.ADA	P	SC=28	CT=70	LT=13.6 ET=56
C52103K.ADA	P	SC=56	CT=159	LT=15.2 ET=193
C52103L.ADA	P	SC=20	CT=57	LT=12.1 ET=56
C52103M.ADA	P	SC=28	CT=102	LT=13.9 ET=76
C52103P.ADA	P	SC=45	CT=111	LT=13.5 ET=72
C52103Q-AB.ADA	P	SC=21	CT=49	LT=11.7 ET=54
C52103R-AB.ADA	P	SC=28	CT=107	LT=14.4 ET=81
C52103X-AB.ADA	P	SC=28	CT=84	LT=12.9 ET=61
C52103Y.ADA	P	SC=17	CT=34	LT=11.2 ET=51
C52104A.ADA	P	SC=56	CT=131	LT=15.4 ET=190
C52104B.ADA	P	SC=23	CT=50	LT=12.2 ET=50
C52104C.ADA	P	SC=30	CT=78	LT=14.6 ET=58
C52104F-AB.ADA	P	SC=44	CT=97	LT=14.3 ET=61
C52104G.ADA	P	SC=23	CT=48	LT=12.1 ET=49
C52104H.ADA	P	SC=31	CT=78	LT=14.1 ET=56
C52104K.ADA	P	SC=56	CT=185	LT=17.3 ET=247
C52104L.ADA	P	SC=23	CT=61	LT=12.7 ET=58
C52104M.ADA	P	SC=30	CT=108	LT=14.0 ET=78
C52104P-AB.ADA	P	SC=44	CT=126	LT=14.9 ET=75
C52104Q.ADA	P	SC=23	CT=57	LT=12.4 ET=56
C52104R.ADA	P	SC=31	CT=117	LT=14.0 ET=81
C52104X-B.ADA	P	SC=25	CT=72	LT=12.1 ET=59
C52104Y.ADA	P	SC=21	CT=51	LT=11.8 ET=60
B53001A-AB.ADA	P	SC=20	CT=555	EC=1

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B53001B-AB.ADA	PM	SC=10	CT=26	EC=1	
B53002A-AB.ADA	PM	SC=9	CT=25	EC=1	
B53002B-AB.ADA	PM	SC=11	CT=29	EC=1	
B53003A.ADA	PM	SC=17	CT=49	EC=4	
B53004A-AB.ADA	P	SC=36	CT=45	EC=11	
C53004B-B.ADA	P	SC=21	CT=41	LT=11.3	ET=36
C53005A.ADA	P	SC=79	CT=119	LT=15.8	ET=55
C53005B.ADA	P	SC=79	CT=124	LT=16.1	ET=65
C53006A.ADA	P	SC=57	CT=139	LT=14.0	ET=70
C53006B.ADA	P	SC=57	CT=149	LT=16.2	ET=79
C53007A.ADA	P	SC=68	CT=155	LT=15.6	ET=59
C53008A.ADA	P	SC=66	CT=159	LT=16.3	ET=58
B53009A.ADA	P	SC=20	CT=31	EC=3	
B54A01A-AB.ADA	P	SC=4	CT=14	EC=1	
B54A01B-AB.ADA	P	SC=4	CT=15	EC=1	
B54A01C-AB.ADA	P	SC=7	CT=27	EC=1	
B54A01D-AB.ADA	P	SC=6	CT=19	EC=1	
B54A01E-AB.ADA	P	SC=7	CT=17	EC=1	
B54A01F-AB.ADA	P	SC=4	CT=8	EC=1	
B54A01G-AB.ADA	P	SC=4	CT=9	EC=1	
B54A01H-AB.ADA	P	SC=4	CT=10	EC=1	
B54A01I-AB.ADA	P	SC=5	CT=7	EC=1	
B54A01J-AB.ADA	P	SC=4	CT=8	EC=1	
B54A01K-AB.ADA	P	SC=6	CT=9	EC=1	
B54A01L-AB.ADA	P	SC=20	CT=27	EC=6	
C54A03A.ADA	P	SC=48	CT=169	LT=11.0	ET=38
C54A04A-AB.ADA	P	SC=21	CT=33	LT=10.0	ET=47
B54A05A.ADA	P	SC=20	CT=26	EC=3	
B54A05B.ADA	P	SC=5	CT=10	EC=1	
C54A06A-AB.ADA	P	SC=15	CT=56	LT=10.3	ET=35
C54A07A-AB.ADA	P	SC=26	CT=74	LT=11.2	ET=58
B54A08A-B.ADA	P	SC=14	CT=17	EC=2	
B54A20A.ADA	P	SC=63	CT=117	EC=21	
B54A21A-AB.ADA	P	SC=24	CT=45	EC=6	
C54A22A-AB.ADA	P	SC=15	CT=51	LT=10.4	ET=35
C54A23A-B.ADA	P	SC=12	CT=21	LT=10.3	ET=33
C54A24A.ADA	P	SC=21	CT=54	LT=10.5	ET=35
C54A24B.ADA	P	SC=13	CT=109	LT=10.4	ET=33
B54A25A-B.ADA	P	SC=13	CT=30	EC=5	
C54A26A.ADA	P	SC=19	CT=36	LT=10.1	ET=34
C54A27A-AB.ADA	P	SC=10	CT=27	LT=9.8	ET=44
B54A27B-AB.ADA	P	SC=6	CT=22	EC=1	
B54A27C-AB.ADA	P	SC=6	CT=22	EC=1	
B54A27D-AB.ADA	P	SC=6	CT=22	EC=1	
C54A41A.ADA	P	SC=42	CT=68	LT=12.2	ET=69
C54A42A.ADA	P	SC=93	CT=231	LT=12.5	ET=68
C54A42B.ADA	P	SC=93	CT=250	LT=12.0	ET=71
C54A42C.ADA	P	SC=53	CT=144	LT=11.6	ET=45
C54A42D.ADA	P	SC=41	CT=101	LT=10.7	ET=56
C54A42E.ADA	P	SC=53	CT=136	LT=11.1	ET=44
C54A42F.ADA	P	SC=57	CT=132	LT=11.7	ET=66
C54A42G.ADA	P	SC=53	CT=132	LT=11.1	ET=67

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A54B01A-B.ADA	P	SC=37	CT=71	LT=11.3	ET=70
B54B01B-B.TST	P	SC=29	CT=47	EC=6	
B54B01C-B.ADA	P	SC=15	CT=22	EC=2	
A54B02A-B.ADA	P	SC=80	CT=195	LT=12.3	ET=80
B54B02B-B.ADA	P	SC=76	CT=153	EC=17	
B54B02C-B.ADA	P	SC=26	CT=39	EC=3	
B54B02D-B.ADA	P	SC=41	CT=62	EC=5	
B54B04A-AB.ADA	P	SC=26	CT=48	EC=4	
B54B04B-AB.ADA	P	SC=39	CT=73	EC=5	
B54B05A-AB.ADA	P	SC=25	CT=56	EC=6	
B55A01A-AB.ADA	PM	SC=43	CT=71	EC=14	
B55A01B-AB.ADA	PM	SC=7	CT=16	EC=1	
B55A01C-AB.ADA	PM	SC=7	CT=21	EC=1	
B55A01D-AB.ADA	P	SC=7	CT=13	EC=1	
B55A01E-AB.ADA	P	SC=7	CT=17	EC=1	
B55A01F-AB.ADA	P	SC=4	CT=12	EC=1	
B55A01G-AB.ADA	P	SC=4	CT=16	EC=1	
B55A01H-AB.ADA	P	SC=4	CT=9	EC=1	
B55A01I-AB.ADA	P	SC=4	CT=8	EC=1	
B55A01J-AB.ADA	P	SC=4	CT=9	EC=1	
B55A01K-AB.ADA	P	SC=4	CT=10	EC=1	
B55A01L-AB.ADA	P	SC=4	CT=9	EC=1	
B55A01M-AB.ADA	P	SC=5	CT=18	EC=1	
B55A01N-AB.ADA	P	SC=5	CT=17	EC=1	
B55A01O-AB.ADA	P	SC=5	CT=26	EC=1	
B55A01P-AB.ADA	P	SC=4	CT=10	EC=1	
B55A01Q-AB.ADA	P	SC=4	CT=9	EC=1	
B55A01R-AB.ADA	P	SC=4	CT=16	EC=1	
B55A01S-AB.ADA	P	SC=4	CT=16	EC=1	
B55A01T-AB.ADA	P	SC=7	CT=14	EC=1	
B55A01U-AB.ADA	P	SC=7	CT=14	EC=1	
B55A01V-AB.ADA	P	SC=7	CT=16	EC=1	
D55A03A-AB.ADA	P	SC=21	CT=39	LT=10.5	ET=39
D55A03B-AB.ADA	P	SC=24	CT=45	LT=10.6	ET=42
D55A03C-AB.ADA	P	SC=32	CT=64	LT=11.4	ET=44
D55A03D-AB.ADA	P	SC=34	CT=69	LT=11.1	ET=46
D55A03E-AB.ADA	P	SC=53	CT=126	LT=12.2	ET=58
D55A03F-AB.ADA	P	SC=56	CT=136	LT=12.5	ET=58
D55A03G-AB.ADA	P	SC=96	CT=316	LT=14.4	ET=84
D55A03H-AB.ADA	P	SC=98	CT=338	LT=14.7	ET=87
B55B01A-AB.ADA	P	SC=9	CT=16	EC=3	
C55B03A-AB.ADA	P	SC=16	CT=33	LT=10.7	ET=67
C55B04A-AB.ADA	P	SC=27	CT=56	LT=11.8	ET=40
C55B05A-AB.ADA	P	SC=114	CT=184	LT=16.0	ET=333
C55B06A.ADA	P	SC=87	CT=357	LT=15.0	ET=571
C55B06B.ADA	P	SC=42	CT=86	LT=12.5	ET=52
C55B07A-AB.DEP	NM	SC=40	CT=73		
C55B07B-AB.DEP	NM	SC=40	CT=73		
C55B08A-B.ADA	P	SC=29	CT=53	LT=12.2	ET=45
C55B09A-AB.ADA	P	SC=33	CT=62	LT=11.6	ET=56
B55B09B-AB.ADA	P	SC=26	CT=50	EC=12	
B55B09C-AB.DEP	NM	SC=26	CT=50	EC=12	

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B55B09D-AB.DEP	NM	SC=26	CT=55	EC=12	
A55B12A-AB.ADA	P	SC=45	CT=97	LT=11.7	ET=69
B55B12B-B.ADA	P	SC=40	CT=84	EC=7	
B55B12C-AB.ADA	P	SC=45	CT=88	EC=7	
A55B13A-AB.ADA	P	SC=34	CT=85	LT=10.0	ET=81
A55B14A-AB.ADA	P	SC=85	CT=180	LT=14.0	ET=129
C55B15A-B.ADA	P	SC=73	CT=140	LT=15.6	ET=71
C55B16A-AB.DEP	NM	SC=23	CT=73		
B55B18A-B.ADA	P	SC=7	CT=11	EC=2	
C55C01A-B.ADA	P	SC=25	CT=40	LT=10.7	ET=39
C55C02A.ADA	P	SC=9	CT=16	LT=10.2	ET=33
C55C02B-AB.ADA	P	SC=16	CT=36	LT=10.8	ET=47
C55C03A-AB.ADA	P	SC=87	CT=148	LT=15.6	ET=50
C55C03B-AB.ADA	P	SC=87	CT=165	LT=16.9	ET=59
C55D01A-AB.ADA	P	SC=46	CT=72	LT=12.5	ET=69
B56001A-AB.ADA	PM	SC=62	CT=108	EC=15	
D56001B-AB.ADA	P	SC=75	CT=148	LT=13.3	ET=44
C56002A.ADA	P	SC=40	CT=153	LT=13.2	ET=83
B57001A.ADA	P	SC=21	CT=29	EC=5	
B57001B-B.ADA	P	SC=45	CT=53	EC=6	
B57001C.ADA	P	SC=28	CT=35	EC=5	
B57001D.ADA	P	SC=38	CT=42	EC=10	
C57002A.ADA	P	SC=44	CT=84	LT=13.1	ET=50
C57003A.ADA	P	SC=98	CT=208	LT=14.2	ET=2426
C57004A.ADA	P	SC=56	CT=106	LT=14.3	ET=124
C57004B.ADA	P	SC=56	CT=120	LT=14.7	ET=131
C57004C-B.ADA	P	SC=27	CT=64	LT=11.4	ET=58
B58001A.ADA	P	SC=11	CT=11	EC=2	
B58002A-B.ADA	P	SC=11	CT=16	EC=2	
B58003A-B.ADA	P	SC=10	CT=15	EC=1	
C58004A.ADA	P	SC=26	CT=46	LT=11.9	ET=59
C58004B.ADA	P	SC=20	CT=39	LT=11.1	ET=51
C58004C.ADA	P	SC=26	CT=49	LT=11.7	ET=69
C58005A-AB.ADA	P	SC=38	CT=80	LT=13.4	ET=57
C58006A-AB.ADA	P	SC=32	CT=66	LT=12.3	ET=59
B59001A.ADA	P	SC=43	CT=45	EC=27	
C59001B.ADA	P	SC=39	CT=104	LT=14.4	ET=85
B59001C.ADA	PM	SC=34	CT=36	EC=21	
B59001D.ADA	P	SC=42	CT=48	EC=16	
B59001E.ADA	P	SC=28	CT=35	EC=18	
B59001F.ADA	P	SC=51	CT=63	EC=25	
B59001G-AB.ADA	P	SC=14	CT=15	EC=2	
C59002A.ADA	P	SC=30	CT=74	LT=12.6	ET=48
C59002B.ADA	P	SC=55	CT=109	LT=14.1	ET=50
C59002C-B.ADA	P	SC=52	CT=74	LT=13.2	ET=60
B59002D-AB.ADA	PM	SC=16	CT=15	EC=2	
B61001A.ADA	PM	SC=26	CT=76	EC=13	
B61003A.ADA	PM	SC=7	CT=11	EC=1	
C61003B.ADA	P	SC=28	CT=72	LT=11.8	ET=54
B61005A.ADA	PM	SC=26	CT=40	EC=6	
B61005B.ADA	P	SC=23	CT=35	EC=5	
C61008A-B.ADA	P	SC=67	CT=177	LT=19.0	ET=95

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C61009A-B.ADA	P	SC=52	CT=179	LT=17.2	ET=84
C61010A-AB.ADA	P	SC=87	CT=211	LT=17.2	ET=89
B62001A.ADA	P	SC=45	CT=68	EC=18	
B62001B-AB.ADA	P	SC=5	CT=8	EC=2	
B62001C-AB.ADA	PM	SC=3	CT=31	EC=2	
B62001D-AB.ADA	PM	SC=5	CT=36	EC=2	
C62002A-B.ADA	P	SC=67	CT=141	LT=15.4	ET=67
C62003A-B.ADA	P	SC=71	CT=145	LT=16.6	ET=48
C62004A.ADA	P	SC=15	CT=55	LT=11.5	ET=71
B63001A.ADA	P	SC=10	CT=18	EC=4	
C63004A.ADA	P	SC=15	CT=35	LT=10.8	ET=51
B64001A-B.ADA	P	SC=29	CT=58	EC=5	
B64002A.ADA	P	SC=27	CT=39	EC=9	
C64002B-B.ADA	P	SC=15	CT=31	LT=11.4	ET=44
B64003A.ADA	P	SC=26	CT=51	EC=9	
B64004A.ADA	P	SC=29	CT=81	EC=10	
C64004B.ADA	P	SC=43	CT=134	LT=14.0	ET=73
B64005A-AB.ADA	P	SC=73	CT=120	EC=16	
B64006A.ADA	P	SC=10	CT=16	EC=2	
C64007A.ADA	P	SC=18	CT=35	LT=10.5	ET=44
B64101A-B.ADA	P	SC=166	CT=247	EC=50	
C64104A-AB.ADA	P	SC=53	CT=112	LT=14.7	ET=60
C64104B-AB.ADA	P	SC=46	CT=91	LT=15.4	ET=52
C64104C-AB.ADA	P	SC=58	CT=147	LT=17.7	ET=68
C64104D-AB.ADA	P	SC=24	CT=49	LT=11.9	ET=51
C64104E-AB.ADA	P	SC=17	CT=38	LT=11.8	ET=57
C64104F-AB.ADA	P	SC=16	CT=32	LT=11.0	ET=50
C64104G-AB.ADA	P	SC=24	CT=52	LT=11.3	ET=58
C64104H.ADA	P	SC=28	CT=53	LT=11.4	ET=54
C64104I.ADA	P	SC=18	CT=60	LT=13.2	ET=72
C64104J.ADA	P	SC=15	CT=35	LT=11.5	ET=57
C64104K-AB.ADA	P	SC=19	CT=49	LT=11.0	ET=62
C64104L-AB.ADA	P	SC=33	CT=74	LT=12.4	ET=64
C64104M-AB.ADA	P	SC=23	CT=57	LT=12.9	ET=79
C64105A.ADA	P	SC=15	CT=40	LT=11.2	ET=78
C64105B-AB.ADA	P	SC=32	CT=79	LT=13.1	ET=77
C64105C-AB.ADA	P	SC=33	CT=88	LT=13.5	ET=93
C64105D-AB.ADA	P	SC=31	CT=78	LT=13.1	ET=84
C64106A-B.ADA	P	SC=126	CT=389	LT=26.2	ET=133
C64106B-B.ADA	P	SC=83	CT=169	LT=17.8	ET=68
C64106C-B.ADA	P	SC=115	CT=233	LT=19.9	ET=83
C64106D-B.ADA	P	SC=97	CT=167	LT=16.9	ET=91
C64107A-B.ADA	P	SC=25	CT=73	LT=11.7	ET=51
C64108A-B.ADA	P	SC=74	CT=274	LT=20.5	ET=123
B65001A.ADA	P	SC=13	CT=21	EC=4	
B66001A-B.ADA	P	SC=67	CT=90	EC=12	
B66001C.ADA	P	SC=31	CT=32	EC=6	
C66002A-B.ADA	P	SC=29	CT=63	LT=11.6	ET=39
C66002C.ADA	P	SC=27	CT=57	LT=11.9	ET=44
C66002D.ADA	P	SC=23	CT=52	LT=11.6	ET=49
C66002E-AB.ADA	P	SC=21	CT=42	LT=11.2	ET=41
C66002F.ADA	P	SC=20	CT=57	LT=12.3	ET=60

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C66002G-B.ADA	P	SC=19	CT=36	LT=10.0	ET=40
B67001A-B.ADA	PM	SC=98	CT=184	EC=41	
B67001B-AB.ADA	PM	SC=75	CT=119	EC=11	
C67002A.ADA	P	SC=145	CT=373	LT=25.0	ET=131
C67003A-B.ADA	P	SC=82	CT=194	LT=18.4	ET=81
C67003B.ADA	P	SC=70	CT=191	LT=16.1	ET=96
C67003C-AB.ADA	P	SC=42	CT=105	LT=13.0	ET=69
C67003D-B.ADA	P	SC=54	CT=126	LT=15.4	ET=67
C67003E-AB.ADA	P	SC=22	CT=59	LT=12.0	ET=61
B71001C.ADA	P	SC=6	CT=7	EC=1	
A72001A-AB.ADA	P	SC=14	CT=18	LT=10.2	ET=35
C72001B-AB.ADA	P	SC=29	CT=44	LT=10.9	ET=37
B73001A.ADA	P	SC=55	CT=56	EC=6	
B73001B-AB.ADA	PM	SC=34	CT=31	EC=6	
B73001C.ADA	P	SC=19	CT=22	EC=2	
B73006A.ADA	PM	SC=10	CT=11	EC=2	
B74001A.ADA	PM	SC=48	CT=48	EC=20	
B74002A-B.ADA	PM	SC=79	CT=103	EC=21	
A74004A.ADA	P	SC=95	CT=225	LT=14.6	ET=66
A74004B.ADA	P	SC=93	CT=113	LT=14.3	ET=65
A74004C-AB.ADA	P	SC=85	CT=116	LT=15.3	ET=68
A74006A-AB.ADA	P	SC=64	CT=97	LT=12.9	ET=65
C74007A.ADA	P	SC=76	CT=179	LT=15.6	ET=80
C74007B-AB.ADA	P	SC=60	CT=122	LT=13.3	ET=65
C74008A.ADA	P	SC=45	CT=90	LT=13.2	ET=49
C74009A-B.ADA	P	SC=29	CT=61	LT=12.2	ET=58
B74101A-B.ADA	P	SC=102	CT=135	EC=16	
B74102B-B.ADA	P	SC=40	CT=68	EC=18	
C74203B-B.ADA	P	SC=41	CT=95	LT=12.6	ET=355
B74301B-AB.ADA	WM	SC=21	CT=32	EC=4	
B74301C-AB.ADA	WM	SC=21	CT=35	EC=4	
B83A01A.ADA	P	SC=16	CT=17	EC=6	
B83A01B.ADA	WM	SC=14	CT=18	EC=5	
B83A01C.ADA	P	SC=21	CT=22	EC=5	
A83A02A.ADA	P	SC=35	CT=51	LT=12.3	ET=47
A83A02B.ADA	P	SC=30	CT=39	LT=11.5	ET=49
A83A05A-AB.ADA	P	SC=34	CT=161	LT=12.5	ET=64
B83A06A.ADA	P	SC=35	CT=35	EC=12	
B83A06B.ADA	P	SC=37	CT=37	EC=15	
B83A06H.ADA	P	SC=21	CT=22	EC=6	
B83B01A-AB.ADA	P	SC=5	CT=8	EC=1	
C83B02A.ADA	P	SC=25	CT=56	LT=12.0	ET=62
C83B02B.ADA	P	SC=31	CT=64	LT=12.7	ET=82
B83B02C.ADA	P	SC=10	CT=19	EC=2	
B83C01A-AB.ADA	PM	SC=38	CT=45	EC=15	
C83C01B.ADA	P	SC=37	CT=86	LT=13.4	ET=69
A83C01C.ADA	P	SC=20	CT=44	LT=11.3	ET=58
A83C01D.ADA	P	SC=24	CT=54	LT=11.8	ET=59
A83C01E.ADA	P	SC=33	CT=84	LT=12.8	ET=61
A83C01F.ADA	P	SC=42	CT=90	LT=12.4	ET=55
A83C01G.ADA	P	SC=52	CT=117	LT=13.2	ET=63
A83C01H.ADA	P	SC=22	CT=45	LT=11.1	ET=52

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A83C01I.ADA	P	SC=26	CT=54	LT=11.6	ET=211
A83C01J.ADA	P	SC=18	CT=29	LT=10.3	ET=50
B83C02A.ADA	P	SC=27	CT=45	EC=8	
C83E02A.ADA	P	SC=29	CT=68	LT=12.8	ET=75
C83E02B.ADA	P	SC=16	CT=29	LT=10.9	ET=53
B83E02C-B.ADA	P	SC=12	CT=18	EC=2	
C83E03A.ADA	P	SC=23	CT=51	LT=11.6	ET=82
C83E04A.ADA	P	SC=37	CT=82	LT=13.1	ET=81
C83F01A.ADA	P	SC=24	CT=60	LT=12.0	ET=97
C83F01B.ADA	P	SC=30	CT=66	LT=12.6	ET=110
C83F01C0.ADA	PC	SC=10	CT=21		
C83F01C1.ADA	PC	SC=8	CT=17		
C83F01C2M.ADA	P	SC=8	CT=28	LT=14.5	ET=123
C83F01DOM.ADA	P	SC=22	CT=56	LT=15.0	ET=134
C83F01D1.ADA	PC	SC=7	CT=24		
B83F02A.ADA	P	SC=45	CT=60	EC=19	
B83F02B.ADA	PM	SC=22	CT=33	EC=13	
C83F03A.ADA	P	SC=40	CT=51	LT=11.0	ET=82
C83F03B.ADA	P	SC=66	CT=78	LT=13.6	ET=152
C83F03C0.ADA	PC	SC=7	CT=15		
C83F03C1.ADA	PC	SC=27	CT=26		
C83F03C2M.ADA	P	SC=8	CT=22	LT=15.4	ET=113
C83F03DOM.ADA	P	SC=18	CT=32	LT=15.6	ET=70
C83F03D1.ADA	PC	SC=41	CT=44		
B84001A-AB.ADA	P	SC=28	CT=28	EC=10	
B86001A1.ADA	P	SC=3	CT=6	EC=0	
B86001A2M.ADA	P	SC=3	CT=7	EC=1	
B86001B0M-B.ADA	P	SC=4	CT=6	EC=0	
B86001BA-B.ADA	P	SC=3	CT=6	EC=1	
B86001BB-B.ADA	P	SC=3	CT=6	EC=1	
B86001BC-B.ADA	P	SC=3	CT=7	EC=1	
B86001BD-B.ADA	P	SC=3	CT=11	EC=1	
B86001BE-B.ADA	P	SC=3	CT=6	EC=1	
B86001BF-B.ADA	P	SC=3	CT=7	EC=1	
B86001BG-B.ADA	P	SC=3	CT=7	EC=1	
B86001BH-B.ADA	P	SC=3	CT=7	EC=1	
B86001BI-B.ADA	P	SC=3	CT=7	EC=1	
B86001BJ-B.ADA	P	SC=3	CT=7	EC=1	
B86001BK-B.ADA	P	SC=3	CT=7	EC=1	
B86001BL-B.ADA	P	SC=3	CT=7	EC=1	
B86001BM-B.ADA	P	SC=3	CT=7	EC=1	
B86001BO-B.ADA	P	SC=3	CT=7	EC=1	
B86001BU-B.ADA	PM	SC=3	CT=9	EC=1	
B86001BV-B.ADA	P	SC=2	CT=9	EC=1	
B86001BW-B.ADA	P	SC=2	CT=9	EC=1	
B86001BX-B.ADA	P	SC=2	CT=10	EC=1	
B86001COM-AB.DEP	P	SC=4	CT=6	EC=0	
B86001CP-AB.DEP	NM	SC=3	CT=6	EC=1	
B86001CQ-AB.DEP	NM	SC=3	CT=6	EC=1	
B86001CR-AB.DEP	NM	SC=3	CT=6	EC=1	
B86001CS-AB.DEP	NM	SC=3	CT=6	EC=1	
B86001DOM-AB.TST	P	SC=4	CT=6	EC=0	

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B86001DT-AB.TST	NM	SC=3	CT=7	EC=1
C86001E-B.ADA	P	SC=41	CT=75	LT=12.6 ET=41
C86002A0.ADA	PC	SC=3	CT=9	
C86002A1.ADA	PC	SC=5	CT=14	
C86002A2M.ADA	P	SC=29	CT=60	LT=16.3 ET=78
C86002B1.ADA	PC	SC=4	CT=11	
C86002B2M.ADA	P	SC=27	CT=59	LT=14.7 ET=74
C86003A-B.ADA	P	SC=34	CT=53	LT=12.0 ET=52
B91001A-AB.ADA	PM	SC=6	CT=11	EC=1
B91001B-AB.ADA	PM	SC=5	CT=10	EC=1
B91001C-AB.ADA	PM	SC=3	CT=7	EC=1
B91001D-AB.ADA	PM	SC=7	CT=7	EC=3
B91001E-AB.ADA	PM	SC=7	CT=7	EC=3
B91001F-AB.ADA	P	SC=10	CT=11	EC=4
B91001G-B.ADA	P	SC=7	CT=8	EC=1
B91002A.ADA	WM	SC=38	CT=53	EC=28
C92002A.ADA	P	SC=19	CT=32	LT=10.9 ET=49
C92003A.ADA	P	SC=18	CT=31	LT=10.6 ET=39
C93001A-B.ADA	P	SC=75	CT=111	LT=15.4 ET=86
C93002A-B.ADA	P	SC=76	CT=115	LT=16.2 ET=108
C93003A-B.ADA	P	SC=105	CT=173	LT=17.7 ET=151
C94001A-B.ADA	P	SC=52	CT=97	LT=14.4 ET=271
C94002A-B.ADA	P	SC=74	CT=124	LT=14.9 ET=274
C94002B-B.ADA	P	SC=79	CT=119	LT=14.9 ET=269
C94003A-B.ADA	P	SC=65	CT=95	LT=13.0 ET=101
C94004A-B.ADA	P	SC=36	CT=59	LT=12.8 ET=83
C94005A-B.ADA	P	SC=29	CT=49	LT=11.9 ET=227
C94005B-B.ADA	P	SC=57	CT=85	LT=13.6 ET=259
C94006A-B.ADA	P	SC=82	CT=124	LT=15.1 ET=88
C94007A-B.ADA	P	SC=73	CT=95	LT=13.0 ET=115
C94007B-B.ADA	P	SC=83	CT=103	LT=14.1 ET=114
B95001A.ADA	P	SC=49	CT=213	EC=18
B95001B-AB.ADA	P	SC=28	CT=44	EC=12
B95002A.ADA	P	SC=25	CT=35	EC=6
B95004A-AB.ADA	P	SC=27	CT=117	EC=6
B95004B-AB.ADA	P	SC=38	CT=40	EC=8
A95005A.ADA	P	SC=21	CT=35	LT=10.9 ET=45
B95006A.ADA	PM	SC=22	CT=31	EC=6
B95006B.ADA	P	SC=12	CT=25	EC=3
B95007A.ADA	PM	SC=40	CT=45	EC=21
C95008A.ADA	P	SC=145	CT=230	LT=21.4 ET=68
C95009A.ADA	P	SC=50	CT=78	LT=13.0 ET=47
C95009B.ADA	P	SC=19	CT=24	LT=10.3 ET=158
C95010A.ADA	P	SC=29	CT=43	LT=11.1 ET=69
C95011A.ADA	P	SC=16	CT=24	LT=10.3 ET=46
C95012A-B.ADA	P	SC=38	CT=56	LT=11.7 ET=116
C95013A-B.ADA	P	SC=30	CT=43	LT=11.4 ET=112
B97101A-AB.ADA	PM	SC=21	CT=40	EC=7
B97101B-AB.ADA	P	SC=10	CT=12	EC=1
B97101C-AB.ADA	P	SC=11	CT=14	EC=1
B97101D-AB.ADA	P	SC=11	CT=14	EC=1
B97101E-AB.ADA	PM	SC=13	CT=30	EC=4

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B97102A-AB.ADA	PM	SC=29	CT=51	EC=13
B97102B-AB.ADA	PM	SC=10	CT=17	EC=2
B97102C-AB.ADA	PM	SC=11	CT=19	EC=2
B97102D-AB.ADA	PM	SC=12	CT=17	EC=2
B97102E-AB.ADA	PM	SC=11	CT=17	EC=2
B97102F-AB.ADA	P	SC=10	CT=12	EC=1
B97102G-AB.ADA	P	SC=10	CT=12	EC=1
B97102H-AB.ADA	PM	SC=12	CT=19	EC=2
B97102I-AB.ADA	PM	SC=9	CT=117	EC=1
B97103A-AB.ADA	PM	SC=19	CT=20	EC=3
B97103B-AB.ADA	PM	SC=14	CT=15	EC=1
B97103D-AB.ADA	PM	SC=16	CT=16	EC=1
B97103E-AB.ADA	PM	SC=13	CT=32	EC=3
B97104A-AB.ADA	P	SC=3	CT=10	EC=1
B97104B-AB.ADA	P	SC=7	CT=14	EC=1
B97104C-AB.ADA	P	SC=11	CT=17	EC=1
B97104D-AB.ADA	P	SC=12	CT=23	EC=1
B97104E-AB.ADA	P	SC=13	CT=21	EC=1
B97104F-AB.ADA	P	SC=15	CT=23	EC=1
B97104G-AB.ADA	P	SC=9	CT=13	EC=1
A97106A-AB.ADA	P	SC=19	CT=25	LT=10.3 ET=47
B97107A-AB.ADA	PM	SC=15	CT=14	EC=2
B97108A-AB.ADA	P	SC=12	CT=26	EC=1
B97108B-AB.ADA	P	SC=12	CT=25	EC=1
B97109A-AB.ADA	PM	SC=12	CT=12	EC=1
B97110A-AB.ADA	PM	SC=17	CT=17	EC=1
B97110B-AB.ADA	P	SC=17	CT=16	EC=1
B97111A-AB.ADA	PM	SC=18	CT=18	EC=1
C97113A-B.ADA	P	SC=43	CT=66	LT=12.6 ET=53
C97114A-B.ADA	P	SC=58	CT=121	LT=13.8 ET=65
C97115A-B.ADA	P	SC=58	CT=123	LT=13.7 ET=66
C97201A-AB.ADA	P	SC=38	CT=60	LT=11.3 ET=101
C97201D-AB.ADA	P	SC=20	CT=27	LT=10.7 ET=85
C97201E-AB.ADA	P	SC=22	CT=34	LT=11.0 ET=86
C97201G-AB.ADA	P	SC=35	CT=56	LT=11.9 ET=114
C97201H-AB.ADA	P	SC=35	CT=55	LT=11.8 ET=117
C97201X-AB.ADA	P	SC=37	CT=55	LT=11.5 ET=52
C97202A-AB.ADA	P	SC=30	CT=48	LT=11.5 ET=51
C97203A-AB.ADA	P	SC=25	CT=39	LT=11.1 ET=72
C97203B-AB.ADA	P	SC=28	CT=41	LT=11.4 ET=74
C97204A-B.ADA	P	SC=29	CT=42	LT=12.0 ET=57
C97303A-AB.ADA	P	SC=27	CT=41	LT=11.4 ET=85
C97303B-AB.ADA	P	SC=30	CT=44	LT=11.4 ET=82
C97304A-B.ADA	P	SC=30	CT=43	LT=12.1 ET=56
B99001A-AB.ADA	P	SC=11	CT=13	EC=1
B99001B-B.ADA	P	SC=10	CT=12	EC=1
B99002A-B.ADA	P	SC=16	CT=20	EC=2
B99002B-B.ADA	P	SC=20	CT=23	EC=1
B99002C-B.ADA	P	SC=23	CT=26	EC=4
B99003A-AB.ADA	P	SC=17	CT=37	EC=3
B9A001A-AB.ADA	P	SC=9	CT=15	EC=1
B9A001B-AB.ADA	P	SC=12	CT=13	EC=1

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C9A003A-B.ADA	P	SC=23	CT=33	LT=10.9	ET=50
C9A004A-B.ADA	P	SC=23	CT=33	LT=11.2	ET=49
C9A005A-B.ADA	P	SC=66	CT=104	LT=14.6	ET=74
C9A006A-B.ADA	P	SC=51	CT=70	LT=12.9	ET=47
C9A007A-B.ADA	P	SC=87	CT=125	LT=15.2	ET=54
CA1002A0-B.ADA	PC	SC=2	CT=7		
CA1002A1-B.ADA	PC	SC=5	CT=10		
CA1002A2-B.ADA	PC	SC=4	CT=9		
CA1002A3M-B.ADA	P	SC=46	CT=75	LT=28.4	ET=49
CA1002A4-B.ADA	PC	SC=3	CT=22		
CA1002A5-B.ADA	PC	SC=2	CT=21		
CA1002A6-B.ADA	PC	SC=3	CT=22		
CA1002A7-B.ADA	PC	SC=3	CT=23		
CA1002A8-B.ADA	PC	SC=4	CT=23		
CA1002A9-B.ADA	PC	SC=3	CT=22		
CA1003A.ADA	P	SC=20	CT=47	LT=11.5	ET=37
CA1003B.ADA	PM	SC=17	CT=35	LT=10.9	ET=51
CA1004A.ADA	P	SC=19	CT=38	LT=10.8	ET=37
CA1005A.ADA	P	SC=17	CT=36	LT=10.8	ET=37
CA1006A-AB.ADA	P	SC=33	CT=65	LT=11.7	ET=42
CA1008A0.ADA	PC	SC=3	CT=9		
CA1008A1M.ADA	P	SC=9	CT=19	LT=13.9	ET=42
CA1009A0.ADA	PC	SC=1	CT=4		
CA1009A1.ADA	PC	SC=2	CT=7		
CA1009A2.ADA	PC	SC=1	CT=5		
CA1009A3.ADA	PC	SC=2	CT=7		
CA1009A4M.ADA	P	SC=11	CT=24	LT=13.2	ET=36
CA1012A0-B.DEP	PC	SC=2	CT=5		
CA1012A1-B.DEP	PC	SC=2	CT=7		
CA1012A2-B.DEP	PC	SC=2	CT=6		
CA1012A3-B.DEP	PC	SC=2	CT=8		
CA1012A4M-B.DEP	P	SC=15	CT=29	LT=13.2	ET=48
CA1012B0-B.ADA	PC	SC=4	CT=10		
CA1012B2-B.ADA	PC	SC=4	CT=11		
CA1012B4M-B.ADA	P	SC=15	CT=30	LT=13.6	ET=51
CA1013A0-AB.ADA	PC	SC=5	CT=11		
CA1013A1-AB.ADA	PC	SC=4	CT=10		
CA1013A2-AB.ADA	PC	SC=4	CT=8		
CA1013A3-AB.ADA	PC	SC=2	CT=10		
CA1013A4-AB.ADA	PC	SC=2	CT=7		
CA1013A5-AB.ADA	PC	SC=2	CT=7		
CA1013A6M-AB.ADA	P	SC=14	CT=30	LT=15.2	ET=39
CA1014AQM-AB.ADA	P	SC=25	CT=49	LT=18.8	ET=55
CA1014A1-AB.ADA	PC	SC=2	CT=15		
CA1014A2-AB.ADA	PC	SC=4	CT=19		
CA1014A3-AB.ADA	PC	SC=2	CT=15		
CA1016A0.ADA	PC	SC=2	CT=9		
CA1016A1.ADA	PC	SC=4	CT=10		
CA1016A2M.ADA	P	SC=12	CT=23	LT=13.2	ET=47
CA1020A0-B.ADA	PC	SC=7	CT=16		
CA1020A1-B.ADA	PC	SC=5	CT=19		
CA1020A2-B.ADA	PC	SC=7	CT=18		

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CA1020A3-B.ADA	PC	SC=5	CT=19	
CA1020A4-B.ADA	PC	SC=8	CT=25	
CA1020A5-B.ADA	PC	SC=4	CT=14	
CA1020A6-B.ADA	PC	SC=8	CT=17	
CA1020A7-B.ADA	PC	SC=4	CT=10	
CA1020A8M-B.ADA	P	SC=18	CT=35	LT=15.8 ET=42
BA1020B0-B.ADA	P	SC=4	CT=11	EC=0
BA1020B1-B.ADA	P	SC=2	CT=7	EC=0
BA1020B2-B.ADA	P	SC=3	CT=6	EC=0
BA1020B3-B.ADA	P	SC=4	CT=10	EC=0
BA1020B4-B.ADA	P	SC=2	CT=8	EC=0
BA1020B5-B.ADA	P	SC=2	CT=6	EC=0
BA1020B6M-B.ADA	P	SC=7	CT=13	EC=2
BA1101A-AB.ADA	P	SC=6	CT=7	EC=2
BA1101B0M.ADA	P	SC=6	CT=10	EC=0
BA1101B1.ADA	P	SC=2	CT=7	EC=0
BA1101B2.ADA	P	SC=3	CT=8	EC=1
BA1101B3.ADA	P	SC=3	CT=10	EC=0
BA1101B4.ADA	P	SC=4	CT=9	EC=1
BA1101C0.ADA	P	SC=2	CT=7	EC=0
BA1101C1M.ADA	P	SC=3	CT=8	EC=1
BA1101D.ADA	P	SC=4	CT=5	EC=1
BA1101E.ADA	PM	SC=4	CT=6	EC=1
BA1101F0-AB.ADA	WM			
BA1101F1M-AB.ADA	WM			
BA1101H0-B.ADA	P	SC=2	CT=8	EC=0
BA1101H1M-B.ADA	P	SC=4	CT=8	EC=1
CA1105A0.ADA	PC	SC=2	CT=9	
CA1105A1M.ADA	P	SC=8	CT=19	LT=12.2 ET=67
CA1105B0.ADA	PC	SC=2	CT=8	
CA1105B1.ADA	PC	SC=2	CT=7	
CA1105B2.ADA	PC	SC=2	CT=7	
CA1105B3M.ADA	P	SC=14	CT=27	LT=16.9 ET=67
CA1105B4.ADA	PC	SC=4	CT=13	
CA1105B5.ADA	PC	SC=13	CT=28	
CA1107A0.ADA	PC	SC=2	CT=8	
CA1107A1M.ADA	P	SC=9	CT=19	LT=13.5 ET=50
CA1107A2.ADA	PC	SC=7	CT=18	
BA2001A-AB.ADA	P	SC=10	CT=11	EC=3
BA2001B.ADA	P	SC=4	CT=6	EC=2
BA2001C.ADA	P	SC=6	CT=9	EC=2
BA2001D.ADA	PM	SC=3	CT=6	EC=1
BA2001E.ADA	P	SC=8	CT=9	EC=2
BA2001F0M.ADA	P	SC=3	CT=6	EC=0
BA2001F1.ADA	P	SC=3	CT=6	EC=0
BA2001F2.ADA	PM	SC=2	CT=5	EC=1
BA2001G0M.ADA	P	SC=3	CT=6	EC=0
BA2001G1.ADA	PM	SC=2	CT=5	EC=1
CA2001H0-B.ADA	PC	SC=5	CT=9	
CA2001H1-B.ADA	PC	SC=2	CT=6	
CA2001H2-B.ADA	PC	SC=4	CT=8	
CA2001H3M-B.ADA	P	SC=14	CT=26	LT=12.7 ET=49

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BA2002A0M.ADA	P	SC=4	CT=7	EC=0
BA2002A1.ADA	P	SC=7	CT=11	EC=0
BA2002A2.ADA	P	SC=7	CT=13	EC=3
CA2003A0M.ADA	P	SC=10	CT=18	LT=12.7 ET=42
CA2003A1.ADA	PC	SC=3	CT=12	
BA2003B0M.ADA	P	SC=6	CT=9	EC=0
BA2003B1.ADA	P	SC=2	CT=7	EC=1
CA2004A0M.ADA	P	SC=11	CT=18	LT=14.4 ET=46
CA2004A1.ADA	PC	SC=3	CT=12	
CA2004A2.ADA	PC	SC=7	CT=20	
CA2007A0M-AE.ADA	P	SC=17	CT=33	LT=16.8 ET=43
CA2007A1-AB.ADA	PC	SC=3	CT=17	
CA2007A2-AB.ADA	PC	SC=3	CT=16	
CA2007A3-AB.ADA	PC	SC=3	CT=16	
CA2008A0M-B.ADA	P	SC=23	CT=44	LT=16.4 ET=50
CA2008A1-B.ADA	PC	SC=2	CT=13	
CA2008A2-B.ADA	PC	SC=2	CT=13	
BA3001A0M-AB.ADA	P	SC=2	CT=5	EC=0
BA3001A1-AB.ADA	P	SC=2	CT=7	EC=1
BA3001A2-AB.ADA	P	SC=2	CT=5	EC=1
BA3001A3-AB.ADA	P	SC=2	CT=4	EC=1
BA3001B0M.ADA	P	SC=2	CT=4	EC=0
BA3001B1.ADA	PM	SC=2	CT=5	EC=1
BA3001C0M-AB.ADA	P	SC=3	CT=9	EC=0
BA3001C1-AB.ADA	P	SC=3	CT=6	EC=1
BA3001D0M.ADA	P	SC=4	CT=7	EC=1
BA3001D1.ADA	P	SC=3	CT=7	EC=1
BA3001E0M-AB.ADA	P	SC=5	CT=8	EC=0
BA3001E1-AB.ADA	PM	SC=2	CT=5	EC=1
BA3001E2-AB.ADA	PM	SC=2	CT=7	EC=1
BA3001E3-AB.ADA	PM	SC=2	CT=5	EC=1
BA3001F0M-AB.ADA	P	SC=6	CT=9	EC=0
BA3001F1-AB.ADA	P	SC=3	CT=7	EC=1
BA3001F2-AB.ADA	P	SC=3	CT=8	EC=1
BA3001F3-AB.ADA	P	SC=3	CT=7	EC=1
CA3002A0-B.ADA	PC	SC=5	CT=11	
CA3002A1-B.ADA	PC	SC=3	CT=9	
CA3002A2M-B.ADA	P	SC=9	CT=19	LT=12.7 ET=47
CA3002A3-B.ADA	PC	SC=3	CT=7	
LA3004A0-AB.DEP	PC	SC=3	CT=10	
LA3004A1-AB.DEP	PC	SC=3	CT=11	
LA3004A2-AB.DEP	PC	SC=4	CT=12	
LA3004A3-AB.DEP	PC	SC=5	CT=14	
LA3004A4-AB.DEP	PC	SC=5	CT=19	
LA3004A5-AB.DEP	PC	SC=3	CT=12	
LA3004A5M-AB.DEP	NM	SC=7	CT=16	LT=14.1 ET=64
LA3004B0-B.DEP	PC	SC=2	CT=7	
LA3004B1-B.DEP	PC	SC=2	CT=8	
LA3004B2-B.DEP	PC	SC=4	CT=10	
LA3004B3-B.DEP	PC	SC=3	CT=11	
LA3004B4-B.DEP	PC	SC=7	CT=21	
LA3004B5-B.DEP	PC	SC=2	CT=9	

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LA 3004B6M-B.ADA	NM	SC=7	CT=16	LT=14.3 ET=65
LA 3006A0-AB.ADA	PC	SC=2	CT=12	
LA 3006A1-AB.ADA	PC	SC=4	CT=8	
LA 3006A2-AB.ADA	PC	SC=3	CT=8	
LA 3006A3-AB.ADA	PC	SC=3	CT=11	
LA 3006A4-AB.ADA	PC	SC=5	CT=14	
LA 3006A5-AB.ADA	PC	SC=2	CT=11	
LA 3006A6M-AB.ADA	P	SC=7	CT=19	LT=7.4
LA 3006B0.ADA	PC	SC=4	CT=17	
LA 3006B1.ADA	PC	SC=3	CT=11	
LA 3006B2.ADA	PC	SC=3	CT=13	
LA 3006B3.ADA	PC	SC=3	CT=8	
LA 3006B4M.ADA	P	SC=6	CT=14	LT=6.3
CA 3006C0-B.ADA	PC	SC=2	CT=7	
CA 3006C1-B.ADA	PC	SC=2	CT=6	
CA 3006C2-B.ADA	PC	SC=3	CT=7	
CA 3006C3-B.ADA	PC	SC=4	CT=11	
CA 3006C4-B.ADA	PC	SC=3	CT=9	
CA 3006C5M-B.ADA	P	SC=7	CT=18	LT=12.6 ET=56
LA 3007A0.ADA	PC	SC=2	CT=8	
LA 3007A1.ADA	PC	SC=4	CT=11	
LA 3007A2.ADA	PC	SC=2	CT=8	
LA 3007A3.ADA	PC	SC=4	CT=12	
LA 3007A4M.ADA	P	SC=6	CT=19	LT=6.7
LA 3007B0-B.ADA	PC	SC=1	CT=5	
LA 3007B1-B.ADA	PC	SC=5	CT=13	
LA 3007B2-B.ADA	PC	SC=4	CT=12	
LA 3007B3-B.ADA	PC	SC=5	CT=19	
LA 3007B4-B.ADA	PC	SC=3	CT=13	
LA 3007B5-B.ADA	PC	SC=2	CT=8	
LA 3007B6-B.ADA	PC	SC=1	CT=8	
LA 3007B7-B.ADA	PC	SC=4	CT=14	
LA 3007B8M-B.ADA	P	SC=7	CT=23	LT=8.9
LA 3008A0.ADA	PC	SC=4	CT=10	
LA 3008A1.ADA	PC	SC=2	CT=10	
LA 3008A2.ADA	PC	SC=2	CT=8	
LA 3008A3.ADA	PC	SC=5	CT=16	
LA 3008A4.ADA	PC	SC=2	CT=11	
LA 3008A5M.ADA	P	SC=6	CT=21	LT=6.5
LA 3008B0.ADA	PC	SC=4	CT=9	
LA 3008B1.ADA	PC	SC=5	CT=13	
LA 3008B2.ADA	PC	SC=3	CT=14	
LA 3008B3.ADA	PC	SC=3	CT=13	
LA 3008B4.ADA	PC	SC=6	CT=11	
LA 3008B5.ADA	PC	SC=3	CT=10	
LA 3008B6M.ADA	P	SC=6	CT=15	LT=6.3
LA 5001A0-B.ADA	PC	SC=2	CT=7	
LA 5001A1-B.ADA	PC	SC=2	CT=7	
LA 5001A2-B.ADA	PC	SC=2	CT=8	
LA 5001A3-B.ADA	PC	SC=6	CT=10	
LA 5001A4-B.ADA	PC	SC=6	CT=11	
LA 5001A5-B.ADA	PC	SC=5	CT=9	

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LA5001A6M-B.ADA	PM	SC=7	CT=15	LT=13.4	
CA5002A-B.ADA	P	SC=36	CT=68	LT=12.1	ET=46
CA5002B0-B.ADA	PC	SC=3	CT=11		
CA5002B1-B.ADA	PC	SC=1	CT=7		
CA5002B2-B.ADA	PC	SC=2	CT=7		
CA5002B3-B.ADA	PC	SC=2	CT=8		
CA5002B4-B.ADA	PC	SC=6	CT=12		
CA5002B5-B.ADA	PC	SC=8	CT=15		
CA5002B6-B.ADA	PC	SC=7	CT=13		
CA5002B7M-B.ADA	P	SC=7	CT=20	LT=16.3	ET=44
CA5003A0.ADA	PC	SC=12	CT=28		
CA5003A1.ADA	PC	SC=4	CT=12		
CA5003A2.ADA	PC	SC=4	CT=12		
CA5003A3.ADA	PC	SC=4	CT=13		
CA5003A4.ADA	PC	SC=4	CT=13		
CA5003A5.ADA	PC	SC=4	CT=15		
CA5003A6M.ADA	P	SC=7	CT=30	LT=19.0	ET=48
LA5004A0-B.ADA	PC	SC=2	CT=7		
LA5004A1-B.ADA	PC	SC=2	CT=7		
LA5004A2-B.ADA	PC	SC=2	CT=7		
LA5004A3-B.ADA	PC	SC=6	CT=9		
LA5004A4-B.ADA	PC	SC=6	CT=11		
LA5004A5-B.ADA	PC	SC=6	CT=11		
LA5004A6M-B.ADA	PM	SC=7	CT=15	LT=13.7	
CB1001A-B.ADA	P	SC=33	CT=57	LT=13.0	ET=55
CB1002A.ADA	P	SC=10	CT=21	LT=9.9	ET=40
CB1003A.ADA	P	SC=25	CT=45	LT=11.9	ET=42
CB1004A.ADA	P	SC=26	CT=42	LT=11.2	ET=37
BB2001A.ADA	WM	SC=9	CT=12	EC=3	
BB2002A.ADA	P	SC=17	CT=21	EC=6	
BB2003A-AB.ADA	P	SC=7	CT=10	EC=1	
BB2003B-AB.ADA	P	SC=8	CT=10	EC=1	
BB2003C-AB.ADA	P	SC=5	CT=7	EC=1	
CB2004A-B.ADA	P	SC=71	CT=149	LT=17.4	ET=53
CB2005A-B.ADA	P	SC=26	CT=38	LT=11.1	ET=34
CB2006A.ADA	P	SC=21	CT=36	LT=11.0	ET=37
CB2007A.ADA	P	SC=40	CT=66	LT=12.4	ET=41
BB3001A-AB.ADA	P	SC=37	CT=34	EC=9	
BB3002A.ADA	P	SC=14	CT=14	EC=3	
CB3003A-B.ADA	P	SC=64	CT=104	LT=15.8	ET=49
CB3004A.ADA	P	SC=52	CT=88	LT=14.9	ET=49
BB3005A.ADA	P	SC=4	CT=14	EC=2	
CB4001A.ADA	P	SC=60	CT=88	LT=14.6	ET=62
CB4002A.ADA	P	SC=50	CT=81	LT=13.9	ET=55
CB4003A-AB.ADA	P	SC=35	CT=60	LT=12.5	ET=71
CB4004A-B.ADA	P	SC=26	CT=44	LT=11.0	ET=41
CB4005A.ADA	P	SC=19	CT=28	LT=10.7	ET=34
CB4006A-B.ADA	P	SC=26	CT=45	LT=11.7	ET=38
CB4008A.ADA	P	SC=66	CT=67	LT=12.8	ET=397
CB4009A-AB.ADA	P	SC=51	CT=76	LT=12.6	ET=50
BC1001A-B.ADA	P	SC=35	CT=60	EC=9	
BC1002A-AB.ADA	P	SC=46	CT=107	EC=14	

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CC1004A-AB.ADA	P	SC=29	CT=48	LT=12.8	ET=53
CC1007A-B.ADA	WM				
BC1008A-AB.ADA	P	SC=9	CT=17	EC=3	
BC1009A-AB.ADA	P	SC=33	CT=34	EC=11	
CC1010A-AB.ADA	P	SC=18	CT=34	LT=10.5	ET=55
CC1010B-AB.ADA	P	SC=19	CT=32	LT=10.3	ET=46
BC1011A-AB.ADA	P	SC=9	CT=15	EC=1	
BC1011B-AB.ADA	P	SC=29	CT=47	EC=4	
BC1012A-AB.ADA	P	SC=10	CT=12	EC=2	
BC1013A-B.ADA	P	SC=47	CT=66	EC=12	
BC1101A-AB.ADA	P	SC=7	CT=10	EC=1	
BC1102A-B.ADA	P	SC=26	CT=41	EC=8	
BC1103A-AB.ADA	P	SC=72	CT=131	EC=29	
BC1104A-B.ADA	P	SC=16	CT=18	EC=3	
BC1104B-B.ADA	P	SC=15	CT=16	EC=4	
BC1106A-AB.ADA	P	SC=8	CT=10	EC=1	
BC1107A-B.ADA	PM	SC=29	CT=46	EC=10	
BC1201A-AB.ADA	PM	SC=8	CT=42	EC=4	
BC1201B-AB.ADA	PM	SC=7	CT=28	EC=3	
BC1202A-AB.ADA	PM	SC=5	CT=11	EC=1	
BC1202B-AB.ADA	P	SC=7	CT=11	EC=1	
BC1202C-AB.ADA	PM	SC=5	CT=12	EC=1	
BC1202D-AB.ADA	P	SC=7	CT=11	EC=1	
BC1203A-AB.ADA	P	SC=11	CT=14	EC=2	
BC1206A-B.ADA	PM	SC=62	CT=91	EC=27	
CC1220A-B.ADA	P	SC=20	CT=74	LT=12.6	ET=45
CC1301A-AB.ADA	P	SC=58	CT=121	LT=13.1	ET=60
CC1302A-AB.ADA	P	SC=72	CT=268	LT=34.0	ET=86
BC1303A-AB.ADA	P	SC=5	CT=7	EC=1	
BC1303B-AB.ADA	PM	SC=7	CT=9	EC=1	
BC1303C-AB.ADA	PM	SC=7	CT=9	EC=1	
BC1303D-AB.ADA	PM	SC=5	CT=7	EC=1	
BC1303E-AB.ADA	PM	SC=5	CT=7	EC=1	
CC1304A-AB.ADA	P	SC=46	CT=88	LT=12.6	ET=59
CC1305B-AB.ADA	P	SC=63	CT=210	LT=15.3	ET=76
BC1306A-B.ADA	P	SC=26	CT=20	EC=2	
CC1307A-AB.ADA	P	SC=13	CT=24	LT=11.0	ET=43
CC1308A-AB.ADA	P	SC=37	CT=87	LT=12.3	ET=57
CC1310A-AB.ADA	P	SC=33	CT=45	LT=11.3	ET=42
BC2001A-AB.ADA	PM	SC=10	CT=15	EC=2	
BC2001B-AB.ADA	PM	SC=10	CT=31	EC=2	
CC2002A-AB.ADA	P	SC=22	CT=36	LT=10.5	ET=34
BC3002A-AB.ADA	P	SC=13	CT=20	EC=3	
BC3002B-AB.ADA	P	SC=9	CT=21	EC=3	
BC3002C-AB.ADA	P	SC=8	CT=13	EC=2	
BC3002D-AB.ADA	P	SC=9	CT=21	EC=3	
BC3002E-AB.ADA	P	SC=10	CT=19	EC=3	
BC3003A-AB.ADA	P	SC=15	CT=60	EC=3	
BC3003B-AB.ADA	PM	SC=17	CT=68	EC=3	
CC3004A-B.ADA	P	SC=28	CT=61	LT=11.5	ET=41
BC3005A-AB.ADA	P	SC=21	CT=37	EC=6	
BC3006A-AB.ADA	P	SC=17	CT=18	EC=4	

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CC3007A-AB.ADA	P	SC=53	CT=97	LT=13.5	ET=50
CC3011A-B.ADA	P	SC=60	CT=107	LT=13.6	ET=73
BC3011B-B.ADA	P	SC=21	CT=37	EC=2	
BC3011C-AB.ADA	P	SC=11	CT=15	EC=3	
CC3011D-B.ADA	P	SC=30	CT=47	LT=11.2	ET=49
CC3012A-AB.ADA	P	SC=119	CT=324	LT=20.9	ET=92
BC3013A-AB.ADA	PM	SC=18	CT=22	EC=3	
BC3101A-B.ADA	P	SC=131	CT=280	EC=36	
BC3101B-B.ADA	P	SC=142	CT=455	EC=74	
BC3102A-B.ADA	P	SC=101	CT=229	EC=33	
BC3102B-B.ADA	P	SC=101	CT=215	EC=33	
BC3103A-AB.ADA	P	SC=60	CT=162	EC=12	
BC3103B-AB.ADA	P	SC=12	CT=17	EC=1	
CC3120A-AB.ADA	P	SC=85	CT=167	LT=19.2	ET=76
CC3120B-B.ADA	WM	SC=66	CT=94		
CC3125A-B.ADA	P	SC=32	CT=83	LT=13.7	ET=110
BC3201A-B.ADA	P	SC=21	CT=32	EC=5	
BC3201B-AB.ADA	P	SC=21	CT=31	EC=5	
BC3201C-B.ADA	P	SC=24	CT=38	EC=6	
BC3202A-B.ADA	P	SC=55	CT=84	EC=16	
BC3202B-B.ADA	P	SC=52	CT=118	EC=16	
BC3202C-B.ADA	P	SC=49	CT=78	EC=14	
CC3203A-B.ADA	P	SC=48	CT=106	LT=18.1	ET=87
BC3203B-B.ADA	P	SC=66	CT=168	EC=8	
BC3204A-B.ADA	P	SC=43	CT=106	EC=8	
BC3204B-B.ADA	PM	SC=44	CT=83	LT=35.0	EC=8
BC3204C0-B.DEP	P	SC=5	CT=9	EC=0	
BC3204C1M-B.DEP	PM	SC=22	CT=64	LT=16.4	EC=0
BC3204C2-B.DEP	PM	SC=16	CT=22	EC=1	
BC3204D-AB.ADA	PM	SC=43	CT=85	LT=34.0	EC=8
BC3204E-B.ADA	P	SC=42	CT=89	EC=8	
BC3205A-B.ADA	P	SC=61	CT=232	EC=16	
BC3205B-B.ADA	PM	SC=62	CT=190	LT=69.7	EC=16
BC3205C-AB.ADA	PM	SC=62	CT=189	LT=68.8	EC=16
BC3205D0-B.ADA	P	SC=9	CT=11	EC=0	
BC3205D1M-B.ADA	PM	SC=31	CT=148	LT=28.0	EC=0
BC3205D2-B.ADA	PM	SC=13	CT=24	EC=1	
BC3205E-B.ADA	P	SC=62	CT=240	EC=16	
BC3205F-B.ADA	P	SC=46	CT=136	EC=8	
BC3205G-B.ADA	PM	SC=47	CT=118	LT=35.4	EC=8
BC3205H-B.ADA	PM	SC=47	CT=123	LT=34.3	EC=8
BC3205I0-B.ADA	P	SC=9	CT=16	EC=0	
BC3205I1M-B.ADA	PM	SC=18	CT=79	LT=17.1	EC=0
BC3205I2-B.ADA	PM	SC=13	CT=25	EC=1	
BC3205J-B.ADA	P	SC=47	CT=140	EC=8	
CC3208A-AB.ADA	P	SC=35	CT=68	LT=14.3	ET=148
CC3208B-AB.ADA	P	SC=37	CT=76	LT=14.7	ET=151
BC3301A-AB.ADA	P	SC=37	CT=152	EC=7	
BC3301B-AB.ADA	P	SC=17	CT=24	EC=4	
BC3302A-AB.ADA	P	SC=33	CT=52	EC=10	
BC3302B-AB.ADA	P	SC=21	CT=29	EC=6	
BC3303A-AB.ADA	P	SC=33	CT=52	EC=10	

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BC3304A-AB.ADA	P	SC=35	CT=55	EC=11	
CC3305A-AB.ADA	P	SC=35	CT=70	LT=14.4	ET=210
CC3305B-AB.ADA	P	SC=23	CT=51	LT=11.5	ET=95
CC3305C-AB.ADA	P	SC=23	CT=52	LT=11.4	ET=92
CC3305D-AB.ADA	P	SC=23	CT=52	LT=11.7	ET=96
BC3401A-AB.ADA	P	SC=28	CT=44	EC=10	
BC3401B-AB.ADA	P	SC=16	CT=24	EC=4	
BC3402A-AB.ADA	P	SC=29	CT=79	EC=6	
BC3402B-AB.ADA	P	SC=22	CT=47	EC=6	
BC3403A-AB.ADA	P	SC=85	CT=314	EC=19	
BC3403B-AB.ADA	P	SC=82	CT=381	EC=18	
BC3403C-AB.ADA	WM	SC=25	CT=45	EC=5	
BC3404A-AB.ADA	P	SC=86	CT=276	EC=14	
BC3404B-B.ADA	P	SC=79	CT=274	EC=14	
BC3404C-AB.ADA	P	SC=21	CT=40	EC=4	
BC3404D-AB.ADA	P	SC=49	CT=87	EC=12	
BC3404E-AB.ADA	P	SC=39	CT=64	EC=3	
BC3404F-AB.ADA	P	SC=36	CT=64	EC=3	
BC3405A-AB.ADA	P	SC=55	CT=101	EC=9	
BC3405B-B.ADA	P	SC=40	CT=85	EC=9	
BC3405C-B.ADA	P	SC=34	CT=66	EC=6	
BC3405D-AB.ADA	P	SC=61	CT=103	EC=8	
BC3405E-AB.ADA	WM	SC=68	CT=131	EC=8	
BC3405F-AB.ADA	WM	SC=40	CT=72	EC=4	
CC3406A-AB.ADA	P	SC=21	CT=46	LT=12.8	ET=75
CC3406B-AB.ADA	P	SC=22	CT=44	LT=12.4	ET=76
CC3406C-AB.ADA	P	SC=27	CT=62	LT=13.1	ET=102
CC3406D-B.ADA	P	SC=23	CT=49	LT=12.6	ET=82
CC3407A-AB.ADA	P	SC=35	CT=83	LT=14.3	ET=79
CC3407B-AB.ADA	P	SC=34	CT=73	LT=14.8	ET=92
CC3407C-AB.ADA	P	SC=35	CT=78	LT=14.8	ET=97
CC3407D-AB.ADA	P	SC=55	CT=105	LT=16.5	ET=93
CC3407E-AB.ADA	P	SC=30	CT=65	LT=13.2	ET=95
CC3407F-AB.ADA	P	SC=21	CT=46	LT=12.4	ET=91
CC3408A-AB.ADA	P	SC=21	CT=45	LT=12.3	ET=76
CC3408B-AB.ADA	P	SC=22	CT=48	LT=12.3	ET=90
CC3408C-AB.ADA	P	SC=27	CT=61	LT=12.8	ET=103
CC3408D-B.ADA	P	SC=22	CT=49	LT=12.6	ET=88
BC3501A-AB.ADA	P	SC=23	CT=32	EC=4	
BC3501B-AB.ADA	P	SC=18	CT=33	EC=4	
BC3501C-AB.ADA	P	SC=32	CT=46	EC=5	
BC3501D-AB.ADA	P	SC=27	CT=65	EC=5	
BC3501E-AB.ADA	P	SC=30	CT=39	EC=4	
BC3501F-AB.ADA	P	SC=30	CT=42	EC=3	
BC3501G-AB.ADA	P	SC=73	CT=93	EC=9	
BC3501H-AB.ADA	P	SC=62	CT=98	EC=9	
BC3501I-AB.ADA	P	SC=17	CT=24	EC=3	
BC3501J-AB.ADA	P	SC=13	CT=21	EC=2	
BC3501K-AB.ADA	P	SC=15	CT=25	EC=2	
BC3502A-AB.ADA	P	SC=25	CT=35	EC=4	
BC3502B-AB.ADA	P	SC=49	CT=75	EC=13	
BC3502C-AB.ADA	P	SC=72	CT=107	EC=16	

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BC3502D-AB.ADA	P	SC=123	CT=173	EC=26
BC3502E-AB.ADA	P	SC=103	CT=198	EC=17
BC3502F-AB.ADA	P	SC=36	CT=65	EC=7
BC3502G-AB.ADA	P	SC=44	CT=83	EC=13
BC3502H-AB.ADA	P	SC=62	CT=104	EC=13
BC3502I-AB.ADA	P	SC=86	CT=142	EC=20
BC3502J-AB.ADA	P	SC=85	CT=192	EC=16
BC3502K-AB.ADA	P	SC=12	CT=16	EC=2
BC3502L-AB.ADA	P	SC=19	CT=30	EC=5
BC3502M-AB.ADA	P	SC=15	CT=20	EC=3
BC3502N-AB.ADA	P	SC=26	CT=36	EC=3
BC3502O-AB.ADA	P	SC=28	CT=42	EC=3
BC3503A-B.ADA	P	SC=62	CT=99	EC=12
BC3503B-B.ADA	P	SC=43	CT=83	EC=8
BC3503C-B.ADA	P	SC=21	CT=34	EC=4
BC3503D-B.ADA	P	SC=34	CT=50	EC=6
BC3503F-B.ADA	P	SC=18	CT=27	EC=3
CC3504A-B.ADA	P	SC=43	CT=97	LT=16.3 ET=135
CC3504B-B.ADA	P	SC=48	CT=92	LT=16.2 ET=121
CC3504C-B.ADA	P	SC=57	CT=127	LT=17.8 ET=272
CC3504D-B.ADA	P	SC=33	CT=70	LT=15.3 ET=114
CC3504E-B.ADA	P	SC=40	CT=98	LT=16.7 ET=137
CC3504F-B.ADA	P	SC=45	CT=99	LT=16.0 ET=122
CC3504G-B.ADA	P	SC=54	CT=138	LT=18.4 ET=275
CC3504H-B.ADA	P	SC=35	CT=74	LT=14.8 ET=125
CC3504I-B.ADA	P	SC=29	CT=60	LT=13.6 ET=91
CC3504J-B.ADA	P	SC=30	CT=57	LT=13.7 ET=98
CC3504K-B.ADA	P	SC=30	CT=55	LT=13.5 ET=66
CC3601C-AB.ADA	P	SC=75	CT=215	LT=21.3 ET=93
CC3602A-AB.ADA	P	SC=36	CT=42	LT=11.4 ET=47
AE2101A-B.ADA	P	SC=45	CT=309	LT=100.4 ET=137
AE2101B-B.ADA	P	SC=15	CT=52	LT=25.9 ET=52
AE2101C-B.ADA	P	SC=17	CT=62	LT=27.1 ET=88
AE2101D-B.ADA	P	SC=15	CT=37	LT=18.5 ET=48
BE2101E-B.ADA	P	SC=42	CT=172	EC=16
CE2102A-B.DEP	P	SC=73	CT=154	LT=21.8 ET=63
CE2102B-B.DEP	P	SC=71	CT=142	LT=23.2 ET=65
CE2102C-B.DEP	P	SC=52	CT=106	LT=22.5 ET=63
CE2102D-B.DEP	NM	SC=63	CT=130	LT=23.8 ET=120
CE2102E-B.DEP	NM	SC=63	CT=132	LT=23.0 ET=109
CE2102F-B.DEP	NM	SC=34	CT=84	LT=17.8 ET=96
CE2102G-B.DEP	NM	SC=64	CT=133	LT=24.5 ET=139
CE2103A-B.DEP	P	SC=87	CT=162	LT=20.5 ET=67
CE2103B-B.DEP	P	SC=87	CT=160	LT=21.5 ET=67
CE2104A-B.DEP	P	SC=59	CT=123	LT=23.3 ET=62
CE2104B-B.DEP	P	SC=66	CT=139	LT=22.6 ET=74
CE2105A-B.DEP	P	SC=25	CT=55	LT=20.0 ET=45
CE2106A-B.DEP	P	SC=59	CT=115	LT=23.5 ET=71
CE2107A-B.DEP	NM	SC=45	CT=125	LT=22.0 ET=157
CE2107B-B.DEP	NM	SC=36	CT=108	LT=29.9 ET=142
CE2107C-B.DEP	NM	SC=37	CT=78	LT=21.6 ET=89
CE2107D-B.DEP	NM	SC=43	CT=101	LT=29.5 ET=108

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CE2107E-B.DEP	NM	SC=34	CT=79	LT=21.2	ET=74
CE2108A-B.DEP	P	SC=16	CT=41	LT=10.9	ET=51
CE2108B-B.DEP	P	SC=20	CT=60	LT=12.3	ET=82
CE2108C-B.DEP	P	SC=20	CT=48	LT=15.3	ET=70
CE2108D-B.DEP	P	SC=26	CT=60	LT=15.5	ET=104
CE2108E-B.DEP	P	SC=20	CT=48	LT=16.5	ET=61
CE2108F-B.DEP	P	SC=26	CT=66	LT=17.5	ET=102
CE2109A-B.DEP	P	SC=25	CT=68	LT=19.5	ET=49
CE2110A-B.DEP	P	SC=47	CT=100	LT=22.5	ET=69
CE2110B-B.DEP	NM	SC=43	CT=96	LT=22.2	ET=81
CE2111A-B.DEP	P	SC=73	CT=153	LT=24.6	ET=58
CE2111B-B.DEP	P	SC=53	CT=102	LT=18.6	ET=54
CE2111C-B.DEP	P	SC=87	CT=175	LT=24.0	ET=69
CE2111D-B.DEP	NM	SC=69	CT=159	LT=23.1	ET=109
BE2112A-B.ADA	P	SC=48	CT=91	EC=33	
BE2112B-B.ADA	P	SC=19	CT=37	EC=10	
BE2112C-B.ADA	P	SC=26	CT=53	EC=13	
BE2114A-B.ADA	P	SC=18	CT=46	EC=3	
CE2201A-B.DEP	P	SC=119	CT=244	LT=36.8	ET=89
CE2201B-B.DEP	P	SC=81	CT=196	LT=27.2	ET=87
CE2201C-B.DEP	P	SC=51	CT=106	LT=20.8	ET=64
CE2201D-B.DEP	P	SC=36	CT=93	LT=16.7	ET=56
CE2201E-B.DEP	P	SC=38	CT=96	LT=17.1	ET=77
CE2201F-B.DEP	P	SC=36	CT=70	LT=15.9	ET=56
BE2208A-B.ADA	P	SC=12	CT=31	EC=3	
CE2210A-B.DEP	P	SC=26	CT=61	LT=14.4	ET=45
CE2401A-B.DEP	P	SC=103	CT=228	LT=33.1	ET=97
CE2401B-B.DEP	P	SC=104	CT=229	LT=32.3	ET=99
CE2401C-B.DEP	P	SC=111	CT=248	LT=33.2	ET=121
CE2401D-B.DEP	P	SC=75	CT=182	LT=26.7	ET=91
CE2401E-B.DEP	P	SC=71	CT=153	LT=25.7	ET=77
CE2401F-B.DEP	P	SC=47	CT=91	LT=18.1	ET=67
CE2402A-B.DEP	P	SC=57	CT=118	LT=21.6	ET=78
CE2404A-B.DEP	P	SC=34	CT=65	LT=16.0	ET=50
CE2405B-B.DEP	P	SC=21	CT=47	LT=15.9	ET=46
CE2406A-B.DEP	P	SC=34	CT=86	LT=17.2	ET=64
CE2407A-B.DEP	P	SC=26	CT=53	LT=16.5	ET=55
CE2408A-B.DEP	P	SC=30	CT=60	LT=16.5	ET=56
CE2409A-B.DEP	P	SC=26	CT=66	LT=16.6	ET=69
CE2410A-B.DEP	P	SC=27	CT=54	LT=16.9	ET=54
BE3001A-B.ADA	P	SC=10	CT=26	EC=4	
BE3002A-B.ADA	PM	SC=17	CT=47	EC=4	
CE3002B-B.ADA	P	SC=20	CT=57	LT=11.2	ET=114
CE3002C-B.ADA	P	SC=17	CT=37	LT=10.2	ET=42
CE3002D-B.ADA	P	SC=18	CT=44	LT=10.5	ET=55
BE3002E-B.ADA	P	SC=8	CT=23	EC=3	
CE3002F-B.ADA	P	SC=14	CT=33	LT=10.2	ET=33
AE3101A-B.DEP	P	SC=19	CT=49	LT=10.6	ET=52
CE3102A-B.DEP	P	SC=54	CT=100	LT=14.6	ET=47
CE3102D-B.DEP	P	SC=18	CT=43	LT=10.7	ET=61
CE3103A-B.ADA	P	SC=45	CT=106	LT=12.8	ET=60
CE3104A-B.DEP	P	SC=49	CT=129	LT=14.1	ET=60

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BE3105A-B.ADA	P	SC=5	CT=19	EC=1	
CE3202A-B.DEP	P	SC=11	CT=37	LT=10.2	ET=52
CE3203A-B.DEP	P	SC=38	CT=89	LT=20.8	ET=265
BE3205A-B.ADA	P	SC=9	CT=27	EC=6	
CE3206A-B.DEP	P	SC=18	CT=40	LT=10.7	ET=41
CE3208A-B.DEP	P	SC=28	CT=59	LT=11.8	ET=52
CE3301A-B.DEP	P	SC=30	CT=77	LT=11.0	ET=72
CE3301B-B.DEP	P	SC=50	CT=151	LT=23.1	ET=512
CE3301C-B.DEP	P	SC=23	CT=61	LT=11.2	ET=39
CE3302A-B.DEP	P	SC=33	CT=69	LT=12.3	ET=58
CE3303A-B.DEP	P	SC=30	CT=64	LT=12.5	ET=63
CE3305A-B.DEP	P	SC=37	CT=124	LT=22.1	ET=4322
CE3402A-B.ADA	P	SC=26	CT=54	LT=11.2	ET=50
CE3402B-B.ADA	P	SC=41	CT=94	LT=20.3	ET=97
CE3402C-B.ADA	P	SC=35	CT=85	LT=19.6	ET=107
CE3402D-B.ADA	P	SC=25	CT=62	LT=11.1	ET=54
CE3402E-B.ADA	P	SC=25	CT=50	LT=11.3	ET=50
CE3403A-B.ADA	P	SC=26	CT=53	LT=11.1	ET=47
CE3403B-B.ADA	P	SC=54	CT=120	LT=13.5	ET=55
CE3403C-B.ADA	P	SC=32	CT=73	LT=11.7	ET=65
CE3403D-B.ADA	P	SC=28	CT=57	LT=12.1	ET=49
CE3403E-B.ADA	P	SC=43	CT=102	LT=12.7	ET=56
CE3403F-B.ADA	P	SC=46	CT=101	LT=13.5	ET=56
CE3404A-B.ADA	P	SC=31	CT=60	LT=12.2	ET=47
CE3404B-B.ADA	P	SC=36	CT=71	LT=11.9	ET=47
CE3404C-B.ADA	P	SC=70	CT=154	LT=14.0	ET=60
CE3405A-B.ADA	P	SC=38	CT=99	LT=20.3	ET=90
CE3405B-B.ADA	PM	SC=26	CT=63	LT=11.7	ET=39
CE3405C-B.ADA	P	SC=30	CT=59	LT=12.1	ET=51
CE3405D-B.ADA	P	SC=32	CT=81	LT=19.9	ET=110
CE3406A-B.ADA	P	SC=42	CT=100	LT=12.5	ET=65
CE3406B-B.ADA	P	SC=30	CT=57	LT=12.2	ET=48
CE3406C-B.ADA	P	SC=44	CT=87	LT=13.1	ET=64
CE3406D-B.ADA	P	SC=28	CT=61	LT=11.2	ET=42
CE3407A-B.ADA	P	SC=51	CT=110	LT=13.1	ET=59
CE3407B-B.ADA	P	SC=26	CT=51	LT=11.7	ET=46
CE3407C-B.ADA	P	SC=31	CT=65	LT=11.6	ET=45
CE3408A-B.ADA	P	SC=49	CT=98	LT=13.5	ET=56
CE3408B-B.ADA	P	SC=41	CT=81	LT=12.0	ET=48
CE3408C-B.ADA	P	SC=31	CT=69	LT=11.9	ET=48
CE3409A-B.ADA	P	SC=23	CT=65	LT=11.7	ET=46
CE3409B-B.ADA	P	SC=32	CT=76	LT=13.3	ET=54
CE3409C-B.ADA	P	SC=68	CT=236	LT=24.6	ET=134
CE3409D-B.ADA	P	SC=39	CT=110	LT=13.2	ET=67
CE3409E-B.ADA	P	SC=29	CT=57	LT=11.4	ET=52
CE3409F-B.ADA	P	SC=25	CT=59	LT=11.7	ET=41
CE3410A-B.ADA	P	SC=23	CT=55	LT=11.3	ET=39
CE3410B-B.ADA	P	SC=32	CT=83	LT=13.7	ET=51
CE3410C-B.ADA	P	SC=66	CT=182	LT=23.2	ET=123
CE3410D-B.ADA	P	SC=32	CT=72	LT=11.4	ET=51
CE3410E-B.ADA	P	SC=23	CT=57	LT=10.8	ET=52
CE3410F-B.ADA	P	SC=25	CT=61	LT=11.0	ET=40

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CE3411A-B.ADA	P	SC=64	CT=155	LT=14.3	ET=60
CE3411C-B.ADA	P	SC=50	CT=117	LT=14.2	ET=58
CE3412A-B.ADA	P	SC=51	CT=119	LT=13.5	ET=51
CE3412C-B.ADA	P	SC=54	CT=120	LT=14.3	ET=65
CE3413A-B.ADA	P	SC=36	CT=86	LT=12.0	ET=45
CE3413C-B.ADA	P	SC=50	CT=110	LT=13.8	ET=63
BE3501A-B.ADA	P	SC=8	CT=30	EC=4	
CE3601A-B.ADA	P	SC=45	CT=123	LT=14.5	ET=86
CE3602A-B.DEP	P	SC=55	CT=205	LT=15.1	ET=304
CE3602B-B.DEP	P	SC=54	CT=201	LT=15.6	ET=111
CE3602C-B.DEP	P	SC=56	CT=147	LT=16.0	ET=48
CE3602D-B.DEP	P	SC=48	CT=110	LT=13.0	ET=65
CE3603A-B.DEP	P	SC=84	CT=234	LT=18.8	ET=72
CE3604A-B.DEP	P	SC=117	CT=467	LT=23.9	ET=190
CE3605A-B.DEP	P	SC=24	CT=61	LT=11.2	ET=516
CE3605B-B.DEP	P	SC=46	CT=135	LT=13.9	ET=63
CE3605C-B.DEP	P	SC=55	CT=131	LT=15.8	ET=46
CE3605D-B.DEP	P	SC=56	CT=181	LT=24.3	ET=99
CE3605E-B.DEP	P	SC=34	CT=80	LT=20.6	ET=167
CE3606A-B.DEP	P	SC=30	CT=92	LT=20.7	ET=58
CE3606B-B.DEP	P	SC=20	CT=82	LT=20.6	ET=366
BE3606C-B.ADA	P	SC=6	CT=21	EC=1	
CE3701A-B.DEP	P	SC=33	CT=94	LT=14.0	ET=57
AE3702A-B.DEP	P	SC=21	CT=69	LT=21.8	ET=50
BE3703A-B.ADA	P	SC=23	CT=63	EC=8	
CE3704A-B.DEP	P	SC=40	CT=117	LT=14.8	ET=68
CE3704B-B.DEP	P	SC=31	CT=77	LT=14.3	ET=64
CE3704C-B.ADA	P	SC=29	CT=72	LT=13.5	ET=61
CE3704D-B.DEP	P	SC=54	CT=150	LT=15.8	ET=90
CE3704E-B.DEP	P	SC=37	CT=104	LT=15.1	ET=55
CE3704F-B.DEP	P	SC=40	CT=109	LT=15.2	ET=70
CE3706C-B.ADA	P	SC=36	CT=89	LT=14.4	ET=48
CE3706F-B.DEP	P	SC=29	CT=92	LT=21.4	ET=72
CE3706G-B.ADA	P	SC=26	CT=64	LT=13.5	ET=41
CE3707A-B.DEP	P	SC=53	CT=163	LT=17.1	ET=50
CE3801A-B.DEP	P	SC=39	CT=95	LT=16.0	ET=60
BE3802A-B.ADA	P	SC=25	CT=117	EC=7	
BE3803A-B.ADA	P	SC=27	CT=63	EC=12	
CE3804A-B.DEP	P	SC=61	CT=161	LT=17.6	ET=72
CE3804B-B.DEP	P	SC=61	CT=169	I=17.9	ET=71
CE3804C-B.DEP	P	SC=64	CT=161	LT=20.3	ET=64
CE3804D-B.ADA	P	SC=55	CT=131	LT=16.6	ET=54
CE3804E-B.ADA	P	SC=55	CT=137	LT=16.0	ET=55
CE3804F-B.DEP	P	SC=30	CT=82	LT=15.8	ET=57
CE3804G-B.DEP	P	SC=79	CT=229	LT=21.1	ET=139
CE3804I-B.DEP	P	SC=54	CT=139	LT=17.9	ET=66
CE3805A-B.DEP	P	SC=67	CT=170	LT=18.2	ET=71
CE3805B-B.DEP	P	SC=68	CT=166	LT=17.7	ET=64
CE3806A-B.DEP	P	SC=44	CT=118	LT=17.0	ET=54
CE3806C-B.DEP	P	SC=55	CT=161	LT=19.7	ET=73
CE3806D-B.DEP	P	SC=64	CT=206	LT=19.9	ET=80
CE3806E-B.ADA	P	SC=94	CT=276	LT=31.8	ET=292

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CE3809A-B.DEP	P	SC=86	CT=253	LT=23.3	ET=63
CE3809B-B.DEP	P	SC=86	CT=252	LT=23.3	ET=65
CE3810A-B.DEP	P	SC=42	CT=117	LT=18.1	ET=64
CE3901A-B.DEP	P	SC=23	CT=59	LT=13.4	ET=63
BE3902A-B.ADA	P	SC=24	CT=170	EC=3	
BE3903A-B.ADA	P	SC=28	CT=63	EC=12	
CE3905A-B.DEP	P	SC=38	CT=101	LT=14.4	ET=57
CE3905B-B.DEP	P	SC=31	CT=74	LT=13.9	ET=54
CE3905C-B.DEP	P	SC=71	CT=173	LT=19.3	ET=57
CE3906A-B.DEP	P	SC=34	CT=94	LT=22.3	ET=162
CE3906B-B.DEP	P	SC=31	CT=72	LT=13.7	ET=62
CE3906C-B.DEP	P	SC=37	CT=106	LT=22.3	ET=159
CE3906D-B.ADA	P	SC=26	CT=67	LT=13.3	ET=47
CE3906E-B.DEP	P	SC=31	CT=91	LT=22.6	ET=102
CE3906F-B.ADA	P	SC=41	CT=135	LT=23.5	ET=197
CE3907A-B.DEP	P	SC=25	CT=73	LT=13.8	ET=59
CE3908A-B.DEP	P	SC=29	CT=88	LT=14.1	ET=75
CZ1101A-AB.ADA	PM	SC=23	CT=46	LT=13.9	ET=419
CZ1102A-AB.ADA	PM	SC=15	CT=54	LT=11.9	ET=61
CZ1103A-B.ADA	PM	SC=85	CT=195	LT=27.1	ET=1381

APPENDIX B

Command Procedures for Compiling, Executing, and Analyzing Tests

The following parameterized command procedure was used to compile, execute, and analyze tests that consisted of a single compilation source file (plus the precompiled REPORT library).

```
$ !# VALID.COM !
$ !# Compile, execute, and record a single-file test. !
$ !# p1 = 7-char test_name (prefix). !
$ !# p2 = optional Ada language version suffix. !
$ !# p3 = ACVC file_type. !
$ if p3 .nes. "" then goto does_file_exist
$ p3 := 'p2'
$ p2 := ""
$ does_file_exist:
$ filename := 'p1'''p2'
$ if p2 .nes. "" then p2 := "-""'p2'
$ open/read/error=end dummy 'filename'.ada
$ close dummy
$ set process /name="VALID''vn':''p1"
$ delete 'filename'.lis;*, 'filename'.vdn;*, 'filename'.vnt;*, 'filename'.vtp;*
$ delete 'filename'.lib;*, 'filename'.ais;*, 'filename'.aix;*
$ copy validlib:validlib.bil 'filename'.lib
$ if "'f$extract(0,1,p1)'" .nes. "B" then goto executable
$ on error then continue
$ adacb 'filename'/libfile='filename'/list/main='p1'/h=9999999999/snap=0
$ goto cleanup
$ executable:
$ on error then continue
$ ada 'filename'/libfile='filename'/list/main='p1'/h=9999999999/snap=0
$ mung base:proc,'filename'
$ delete execute.out;*
$ cleanup:
$ delete 'filename'.lib;*, 'filename'.ais;*, 'filename'.aix;*
$ mung base:analyze,'filename' 'p1'''p2''.p3'
$ purge 'filename'.lis
$ if "'f$extract(0,1,p1)'" .eqs. "B" then goto rename
$ on error then continue
$ append/new execute.out execution.*
$ delete execute.out;*
$ rename:
$ on error then continue
$ rename 'filename'.lis ".vnt;*
$ on error then continue
$ rename 'filename'.ada ".adn
$ end:
```

Example invocations of VALID.COM are:

```
$ valid B22001A TST
```

```
$ valid C24113A B DEP
```

The following parameterized command procedure was used to compile, execute, and analyze tests that consisted of more than one compilation source file (plus the precompiled REPORT library).

```
$ !* VALIDMF.COM *!
$ !* Compile, execute, and record a multiple-file test. *!
$ !* p1 = 7-char test_name (prefix). *!
$ !* p2 = string of compilation order (8th char) suffix characters. *!
$ !* p3 = compilation order character of main procedure. *!
$ !* p4 = optional Ada language version suffix. *!
$ !* p5 = ACVC file_type. *!
$ if p5 .nes. "" then goto does_file_exist
$ p5 := 'p4'
$ p4 := ""
$ does_file_exist:
$ if p4 .nes. "" then p4 := "-"'p4'
$ mainname := 'p1''p3'M
$ open/read/error=end dummy 'mainname'.ada
$ close dummy
$ set process /name="VALID" vn:''p1''
$ delete 'p1'*.lis;*, 'p1'*.vdn;*, 'p1'*.vnt;*, 'p1'*.vtp;*
$ delete 'p1'.lib;*, 'p1'*.ais;*
$ copy validlib:validlib.bil 'p1'.lib
$ n = 0
$ compile:
$ if n .ge. 'f$length(p2)' then goto is_executable
$ filename := 'p1' f$extract(n,1,p2)'
$ if "'f$extract(n,1,p2)'" .eqs. p3 then filename := 'mainname'
$ on error then continue
$ adac 'filename'/libfile='p1'/list/h=999999999/snap=0
$ n = n + 1
$ goto compile
$ is_executable:
$ if "'f$extract(0,1,p1)'" .eqs. "B" then goto cleanup
$ delete results.lis;*
$ on error then continue
$ adaxl 'p1'/main='mainname'/list=results/h=999999999/snap=0
$ mung base:results,'mainname'
$ delete results.lis;*
$ mung base:proc,'mainname'
$ purge 'mainname'.lis
$ delete execute.out;*
$ cleanup:
$ delete 'p1'.lib;*, 'p1'*.ais;*
$ n = 0
$ analyze:
$ if n .ge. 'f$length(p2)' then goto rename
$ filename := 'p1' f$extract(n,1,p2)'
$ if "'f$extract(n,1,p2)'" .eqs. p3 then filename := 'mainname'
$ mung base:analyze,'filename' 'filename' 'p4'.'p5'
```

B Command Procedures for Compiling, Executing, and Analyzing Tests

```
$ if "'`f$extract(0,1,p1)'`" .eqs. "B" then purge 'filename'.lis
$ if "'`f$extract(0,1,p1)'`" .eqs. "B" .or. filename .nes. mainname then -
    goto inc_n
$ on error then continue
$ append/new execute.out execution.*
$ delete execute.out;*
$ inc_n:
$ n = n + 1
$ goto analyze
$ rename:
$ on error then continue
$ rename 'p1'*.lis *.vnt;*
$ on error then continue
$ rename 'p1'*.ada *.adn
$ end:
```

Example invocations of VALIDMF.COM are:

```
$ validmf BA1101C 01 1 ADA
$ validmf CA2007A 0123 0 AB ADA
```